QUARRIES.

re Kining Fournal,

COMMERCIAL RAILWAY GAZETT

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

o. 1395.—Vol. XXXII.

LONDON, SATURDAY, MAY 17, 1862.

(STAMPED.....SIXPENCE. UNSTAMPED.FIVEPENCE

JAMES CROFTS, SHAREBROKER,
No. 1, FINCH LANE, CORNHILL. (Established 17 years.)
hers transacts business, in the way of PURCHASE or SALE, in every descripnersh, but particularly in BRITISH MINES, in no case departing from the pois broker, at net prices. All orders meet with the utmost punctuality and
serior given as the nature and eligibility of INVESTIRENTS, when required,
NGES OF STOCK effected on the most advantageous basis, subject only to one

hearliest and most authentic information on all points connected with Central ast Crit Clien Lead Mines can be obtained of Mr. Croffs, who has special in the shares as BUYER or SELLER. The success of these mines appears now search fact. Market rapidly advancing for all shares in good repute, is 1980.

6,1865.

JAMES LANE, No. 44, THREADNEEDLE STREET, LONDON, E.C.

LAND BAS FOR SALE, at nett prices:—10 Brea Cousols, 25c.; 5 Brynford 15; 15 Drake Walls, £1 5c.; 100 Daie, 10s. 6d.; 20 East Jane, £25; 20 East. 18; 20 East Russell, £3; 50 Great Wheal Martha, 16s. 6d.; 50 Glasgow Confered Tregune, 2s. 6d.; 2 Herward United, £25; 10 Hingston Down, £25; 5; 20; 10; 10 Marte Valley, £105, 10 Lady Bertha, 13s.; 5 Ludeott, £5; 5 Margery, £55; 20; 18; 10 Marte Valley, £105; 10 North Hallenbeagle, 13s. (17s. 6d. paid); 5 Down; 50 North Nath-y-Mwyn, 3s.; 10 North Trelawny, 21s. 6d.; 5 Old 55; 40 Prosper United, £3; 5 Polmear, £25; 20 Pedn-an-drea, 10s.; 20 Red-16; 28 Roseware United, £25; 40 Sort togg, 11s.; 20 South Caradon Wheal 15 South Condurrow, 7s. 6d.; 15 Trumpet United, 11s.; 25 Tolvadden, £4½; 5 Searow, £6; 5 West Caradon, £36½; 30 West South Caradon, 20s.; 2 North £25.

VESTMENTS IN CORNISH MINES,—
ss PETER WATSON'S "WEEKLY MINING CIRCULAR AND SHARE
of yeterday (Friday), No. 216, Vol. V., price 6d. each copy.

of ysterday (Friday), No. 216, Vol. V., price 6d. each copy.

SUBSCRIBERS AND CLIENTS.—The Mining Share Market hat his week shown greater activity than for any similar period during the past there years; indeed, the amount of business has been on an unprecedented scale y description of stocks, but more especially for shares in East Caradon, Wheai y Meal Gylis, East Caradon, Wheai Wasai Gylis, East Caradon, East Caradon, Wheai was gring the same of the property of the proper

Access nows to server	on, 100a .													
ames of mines.	Number of shares.	Price per share when recom- mended.			Present ence or profit per		r	Difference sent price in marke on the min	e, or	rise				
il Hill & Ransom	6000	€ 1	5	0	Z	4	10	0	£S	5	0	£19,500	0	0
aradon	6144	24	10	0		83	0	0	8	10	0	52,224		0
Grylls	1024	2	0	0	力	15	0	0	13	0	0	13,312	0	0
Arthur	5990	0	7	0		0	16	0	0	9	0	2,695	10	0
ara Brea	6000	7	0	0		12	5	0	5	5	.0	31,500	0	0
den	6000	1	0	0		2	6	0	1	8	0	7,500	0	0
Kitchen	2450	27	10	0		31	0	0	3	10	0	8,575	0	0
ark	920	27	0	0		82	0	0	5	0	0	4,600	0	0
harp Tor	256	25	0	0		45	0	0	20	0	0	5,120	0	0
	6000	7	0	0		10	10	0	3	10	6	21,000	0	0
rne United		18	0	0		31	0	0	13	0	0	6,656	0	0
Seton	396	100	0	0	1	22	0	0	22	Ö	0	8,712	0	0
Tolgus	519	40	0	0		KA	0	ŏ	14	ñ	ñ	7 149	0	•

.....£203,722 10 0

of the above have seen a much higher figure during the period above-named, the present position of future prospects, there are many of those, as well as Just will have a further considerable advance. It Magnus, May 16, 1862.—Since the above was written and published, a fursion 5231,660 has taken place in the market value, and many of the above equivalent that the second of the

OCK AND SHAREDEALER .- MR. PETER WATSON, SOLISH and FOREIGN STOCK, SHARE, and MINING OFFICES, 79, OLD D STREET, LONDON, E.C. EVAT, 1018-TOCK BANKS, DOCK, INSURANCE, CANAL, MINING, SAHIP, 18A-STOCK BANKS, DOCK, INSURANCE, CANAL, MINING, STATE AND ADDRESSOR, OR ADDRESSOR OF SHARES BOUGHT and SOLD SEAL RIAG OF STATE AND ADDRESSOR OF SHARES BOUGHT and SOLD

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stream of the prices of cash.

en years' experience (two in Cornwall and fifteen in London).

Bankers: Union Bank of London.

information can be obtained, on personal application or by letter, as to purchase at miss and other shares, and the best investment for capital. Its closs proximity of his offices to the Stock Exchange, as well as the Mining R. Frzz, Warson is enabled to act with promptitude on all orders entrusted the stall times are carried out with punctuality, and to the best advantage of the stall times are carried out with punctuality, and to the best advantage of the stall times are carried out with punctuality.

ially inspected—Fee £2 10s, each inspection.

CIAL REPORTS on the FOLLOWING MINES—
NORTH DOWNS,
WHEAL GRYLLS,
WHEAL SETON,
WEST TOLGUS,
ST. DAY UNITED,
STRAY PARK.
Pictor 54, each.

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100 San Shimes, 156 6.1, 50 North Basset, £4½; 35 Great South Tolgus,

100 San Grenville, 51s.; 50 North Downs, £1 8s.; 40 Wheal Grenville, £5½;

100 San Shimes, 100 Now South Caradon; 3 Wheal Secton, £127½; 100 Wheal Hope,

100 San Shimes, 100 Now South Caradon, 2 8 Wheal Secton, £127½; 25 Ludeott;

100 San, £4½; 100 St. Day United; 10 West Bryn Gwiog, £2½; 25 Ludeott;

100 San, £5½; 50 Great Foundary; 50 Nant-y-lago, 32s. 6d.; 35 Wheal Union; 70

11, 100 San, £4½; 40 Central Minera; 200 Vale of Towy; 20 East

11, 100 Great South Caradon; 100 Wheal Univ, 15s. 6d.; 50 Tolvadden, £3 19s.

11, 120 Great South Caradon; 100 Wheal Univ, 15s. 6d.; 50 Tolvadden, £3 19s.

11, 120 Great San, £4½; 50 North Bassel, £4½; 55 Wheal Union;

12, 120 Great South Caradon; 150 North Bassel, £4½; 55 Wheal Union;

12, 120 Great South Tolus, £5½.

TISH AND FOREIGN STOCK, RAILWAY, AND MINING HARB SUGHT AND SOLD by Messas. FULLER AND CO., No. 26, 34 with the property of the builders of stock are invited to confirm the builders of stock are invited to confirm the builders of stock are invited to confirm the builders of the purchase or sais of such stocks.

Full message with the purchase of such stocks, and paying 15 to 20 per in Retisk mines, being perfectly free from risk, and paying 15 to 20 per in a few smalls. Telegraphic messages promptly attended to.

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In any business that George Moore is favoured with, in which he is the buyer, he will give CASH ON RECEIPT OF TRANSFER.

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30 St. Day, 17s. 9d.
1 South Tolgus.
2 So. Wh.Frances. £99½
2 So. Basset, £11 13s. 9d.
5 South Phenix, £2½
2 Trelawny, £15½
5 Tramar Consols, 24s. 9d.
20 Treloweth, 5s. 9d.
20 Treloweth, 5s. 9d.
20 Treloweth, 5s. 9d.
20 Treloweth, 5s. 9d.
30 Trewatha, 6s. 9d.
30 Trewatha, 6s. 9d.
40 Troudden.
1 Trelyon, £18,
50 United Mexican, £78 9
30 Vale of Towy, 5s. 3d.
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5 West Stray Park, £1½
1 West Seton, £280,
10 W Consolidation, £280,
20 Wh. Grenville, £5.
20 West Sharp Tor, £5.
50 W. So. Caradon, 18s 61
1 Wheal Seton, £128,
5 Wh. Uny, £7 11s. 3d.
1 Wh. Margaret, £44½
30 Wheal Moyle.
3 West Frances.
2 W. Bryn Gwiog, £61½
4 Wheal Polmear, £18%
10 Wheal Hope.
3 West Condurrow.
30 Wheal Hope.
30 West Grylls.
30 West Wendron, £3.
5 West Condurrow.
30 Wheal Arthur, 12s. 6d.
30 Wheal Hope.
50 Wheal Norris.

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ottion on the merits of the various mines currently dealt in.

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BERCHIN LANE, DEALER in BRITISH MINING SHARES and OTHER SECURITIES, from long experience and intimate sequalintance with all mining stocks, can advise as to investment of capital at closest market prices.

South Caradon, East Caradon, Cook's Kitchen, Providence, Marke Valley, East Cara Brea, &c., are all sound investments and good to buy. Billins, at £17, are safe for a great rise. Since I directed notice to East Cara Brea as likely to have a rise of 100 per cent., shares have risen 60 per cent., and it is highly probable that they will advance to double present quotations during the coming twelve months. East Cara Brea is undoubtedly the prize of 1862, as much as East Caradon proved the prize of 1861. Upwards of £5000 worth of copper ore is being discovered/monthly in excess of that taken away: shares ought to be bought immediately: 100 shares for sale at market price, or any number bought at a small marginal difference.

MR. BATTERS is a BUYER of FIVE HUNDRED SANTA BARBARA SHARES, at 12s. premium, or will SELL FIVE HUNDRED

MR. BATTERS is a BUYER of ONE HUNDRED EAST CARN BREA SHARES at £16%, or will SELL ONE HUNDRED at £16%, and strongly recommends his friends to increase their interest immediately, as large numbers of shares are being bought for investment by parties residing in the locality of the mine.

WILLIAM SEWARD, MINING BROKER, STOCK AND SHAREDEALER, 26, THROGMORTON STREET, LONDON, E.C. Commission, 1½ per cent. on £100 and above, and 2½ per cent. on less sums.

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18s. Frances, £100½.

Mr. Jackman is a BUYER of—
Herodsfoot. Wendron Consols. Wheal Gre
North Basset. Uny.
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Itay 16, 1862. Bankers: London and Westminster, Lothbury.

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10 St. Ives Wh.Allen, £3½
20 Terworlis, £3.
20 Gurlyn, 20s.
20 Gurlyn, 20s.
20 Gurlyn, 20s.
20 West Polmear, 10s.
10 East Alfred, 21s.
5 Camborne Vean, £2½.
5 Camborne Vean, £2½.
5 Camborne Vean, £2½.
7 Prospectus of the Burren Lead and Calamine Company (Limited) on application.

Prospectus of the Burren Lead and Calamine Company (Limited) on application. JAMES HUME'S "CIRCULAR" for April contains SPECIAL INFORMATION and REPORTS on UNY, EAST CARN BREA, EAST CARA-DON, GREAT FORTUNE. TOLVADDEN, &c. Bankers: Lendon Joint-Stock Bank.

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INVESTMENT.—MR. THOMAS SPARGO, STOCK, SHARE, and MINING BROKER, Nos. 224 and 225, GRESHAM HOUSE, OLD BROAD STREET, LONDON, E.C., publishes, every Wednesday, a GUIDE to BRITISH and FOREIGN MINING, and OTHER INVESTMENTS, which should be consulted by all capitalists. Fost free on receipt of six stamps.

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BANK, and OTHER SHAKES at Stock Exchange rates.

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Bronfloyd, 434.
Cook's Kitchen, 4334.
Cook's Kitchen, 4334.
Cook's Kitchen, 4334.
East Gunnia Lake, £1½.
East Gunnia Lake, £1½.
East Carn Brea, £1634.
East Carn Brea, £1634.
Coreat South Tolgus, £5½.
North Browns, £4½.
North Roskear, £22½.
North South, 25½.
North Mowns, £4½.
North Mowns, £5½.
North M

May 16, 1862.

CEORGE RICE, SHAREBROKER, I, FINCH LANE, Cardon Consols, £12\(\frac{1}{2}\)4. East Caradon, £45. East Cara Brea, £16\(\frac{1}{2}\)4. East Grenville, 40s. East Grenville, 40s. Cara Fortune, £25\(\frac{1}{2}\)4. Sort Fortune, £25\(\frac{1}{2}\)4. Sort Fortune, £25\(\frac{1}{2}\)4. Sort Caradon, £45. East Grenville, 40s. East Grenville, 40s. Sorth Treisway, 20s. Sorth Treisway, £26. North Treisway, £26. North Crofty, £29\(\frac{1}{2}\)4. Wheat Granville, £45. Wheat Caradon, £34. Eath Caradon, £15. Sorth Crofty, £29\(\frac{1}{2}\)5. Sorth Crofty, £29\(\frac{1}{2}\)6. Wheat Caradon, £34. Wheat Uny, £74\(\frac{1}{2}\)5. Wheat Uny, £74\(\frac{1}{2}\)5. Wheat Uny, £74\(\frac{1}{2}\)5. Wheat Uny, £74\(\frac{1}{2}\)5. Wheat Uny, £74\(\frac{1}{2}\)6.

CORNHILL, is a BUYER ofCarodon Consols, £12½.

Brook wood, £1.
East Caradon, £45.
East Carn Bres, £16%.

East Grenville, 40s.
Sorth Treinwny, 20s.
North T

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BEDMINSTER, BRISTOL.

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TOR SALE:—2 West Seton, £262½; 8 Wheal Seton, £125½; 10 North Traskerby, £27; 10 North Basset, £1½; 10 Ludcott, £7 1is, 3d.; 10 Wheal Grenville, £6 1s, 3d.; 20 East Grenville, 49s, £d.; 20 Tolvadden, £3 13s, 9d.; 20 West Condurrow, £4 13s, 9d.; 10 North Downs, £4 5s, £d.; 20 Wheal Grenville, £36½; 10 Wheal Hearle, £14 7s, £d.; 5 East Caradon, £454½; 10 Wheal Uny, £7 1s, 9d.; 10 East Cara Brea, £16½; 2 Marguret, £43½; 1 Providence, £10½; 3 Bryniford Hall, £5½; 30 Vaic of Towy, 4s, £d.; 2 S North Treisway, 21s, £d.; 1 North Roakear, £21½; 2 10 East Russell, £2 18s, 2d.; 30 Sortridge Consols, 10s, 9d.; 15 Wheal Harriett, 21s, 3d.; 30 North Robert, 17s, 3d.; 30 North Robert, 17s, 3d.; 30 North Robert, 17s, 3d.; 50 North Robert, 17s, 3d.; 50 North Robert, 17s, 3d.; 10 East Providence, 12s.—Apply to "H. B.," Post-office, Throgmorten-street, London, E.C.

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COMPANY (LIMITED), BURY, LANCASHIRE.

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ROLLING IRON-ARMOUR PLATES.

ROLLING IRON—ARMOUR PLATES.

Sir,—I perceive, by the Journal of May 3, that Mr. Napier, of Glasgow, proposes rolling iron by placing a series of rolls one before the other, with vertical rolls where required. I beg to state that I took out a patent for a similar process in Feb., 1861 (specification 333), and that the same is now in course of erection at the Dowlais Ironworks, Glamorganshire, for blooming for railway iron. Slabs for the heads of rails can be rolled from a bulky pile down to any required thickness without any labour at the rolls. The pile is thrown into the first groove, and passes through the whole of the rolls. The rolls are short, having but one groove in each; it is, in fact, a self-acting mill. Besides, the layers of iron must be more properly welded, as they pass through the rolls much quicker than by the old system. The labour saved by it will pay for its erection in eight or nine months where the make is large. One machine will bloom for two or more mills if required; and rails can be rolled from very large piles, without the re-heating, by placing a sufficient number of rolls to reduce them small enough to enter the finishing rolls. Engineers, at first sight of the working model, think there is a difficulty in getting the rolls to go at the proper speed to sait the elongation of the iron. Mr. Napier, according to his specification (for provisional protection only), seems to think so. As far as the railway iron is concerned, or, indeed, any other iron, unless it be very wide plates, of which I shall speak hereafter, there is no difficulty whatever, of which I think I shall convince anyone practically acquainted with the rolling of iron. The rolls, of course, may be made larger if required, to make up for speed. We will suppose the body of all the rolls to be the same speed: then as the grooves decrease the same speed: then as the grooves decrease very wide plates, of which I shall speak hereafter, there is no difficulty whatever, of which I think I shall convince anyone practically acquainted with the rolling of iron. The rolls, of course, may be made larger if required, to make up for speed. We will suppose the body of all the rolls to be the same size, and driven at the same speed; then as the grooves decrease in size the diameter will increase in the working part, which, I think, quite sufficient for the elongation. But if it should not be so, it is quite immaterial, which the following will prove. Place any obstacle before the groove in the rolls (say the side of the roughing plate, for instance), and it will stop the pile, or bloom, as soon as it coffee in contact with it, yet the engine will continue the same speed. Remove the obstacle and the pile passes through, and, if not stopped too long so as to cool, it will still make a good rail. Again, if the draft is to severe, or the roll to smooth, the bloom will travel through the rolls slowly, when the rolls are going full speed, and yet make a good rail, thus showing that very little indeed will cause the rolls to slip over the iron, if required, without injuring it. A great deal more may be said on the subject, but the above must suffice at present; therefore, I have no hositation in saying that rails made with my patent mill will be superior to those made on the old system, being more properly welded; and this I say after having a number of years' experience and close study in some of the largest ironworks in the country.

A few words about Armour Plates and I have done. As armour plates are much in demand, and their weight continually increasing, so much so that it is with difficulty they are handled by the men, I believe they can be rolled any size easily and economically with my mill, by placing a pair of vertical rolls between each pair of horizontal rolls. The vertical rolls will draw them to the width required, either square at the edges or tapered, and at the same time convey the plate int

CHARLES WHILE

Taff Vale Rail Works, near Pontypridd, May 7.

PRESENT STATE OF THE MANUFACTURE OF RAILS.

PRESENT STATE OF THE MANUFACTURE OF RAILS.

Sir,—A paper I addressed some months ago to the Journal, on the subject of rails, called forth, soon after its appearance, a communication from a correspondent signing "T.," who used the heading of my article as a text to some strictures on the same subject. Though my name was used, and my paper mentioned in this communication, it was not in a manner that rendered any reply on my part necessary; but on recently looking over "T.'s" remarks, they appeared to me more suggestive than I had at first supposed, and gave rise in my mind to a few reflections, which, with your permission, I will proceed to lay before your readers. In the first place, "T." says that "the more an Englishman sees of foreign nations, the more will he become strengthened in the opinion that his own country can lay the most legitimate claim to pre-eminence in the manufacture of iron." Foreign nations, in regard to rails at least, seem to have arrived at a different conclusion; and viewing the subject alternately from "T.'s" point of view and that of foreign engineers, it is not difficult to see how hese two conflicting opinions may be both perfectly reasonable. "T.," justly proud of the vast resources of Great Britain in men and materials, looks to what she can do, foreigners to what she does do; and while the rage continues for the production of cheap rails, of no matter how inferior a quality, so long will a low opinion of English rails exist on the Continent. As to the policy of some railway magnates towards their purveyors of materials. a quanty, so long with a low opinion of English rais exist on the Continent. As to the policy of some railway magnates towards their purveyors of material, I consider it not only all wrong, but so absurdly and transparently so, that it seems incredible such a course should be persisted in, particularly when unprejudiced professional opinion is so unanimous in condemning it. It seems to me that there are but two rational systems to be pursued in the premises: one is, to specify minutely the materials and manner of and in which the rail is to be made, to take measures to ensure that the stipulations he excited in the second was tract or automates. which the rail is to be made, to take measures to ensure that the stipulations be carried into execution, and then, exact no test or guarantee; or, simply to agree that the rail, when finished, shall possess certain qualities and sustain certain tests, taking, if this be thought insufficient, a guarantee for one or more years, and then leave all the details of manufacture entirely to the discretion of the furnisher. Either of these methods would be logical, but the second is not only logical, but also the plain, common-sense mode of obtaining a given required result. If this result be obtained, it can make but little difference to the company whether the rail is made of cast-steel or bee's-wax. The lack of wisdom in dictating the choice of materials and mode of manufacture is very evident, from the consideration of a few facts:

—1. Different forges frequently work up totally different descriptions of raw material, consequently, to obtain the same result, a good rail, different processes must be resorted to.—2. The rules for working are frequently prescribed by men comparatively ignorant of iron manufacture, and who, therefore, insist, with a pertinacity directly proportionate to their want of knowledge on the subject, on the use of certain methods which they think will produce the desired end, perfectly convinced that the ironmasters either will produce the desired end, perfectly convinced that the ironwasters either cannot or will not make a good rail, unless told how.—3. The difficulty of exercising so strict and intelligent a supervision as will ensure the prescriptions being adhered to, if the manufacturer be disposed to break through them. In substantiation of this fact, I may remark that a gentleman, in speaking of a large continental ironwork with which he was connected, told me that, as the comptrollers which the railroad companies sent were only civil engineers, there was no difficulty in arranging matters according to their own ideas. Certainly every branch of trade presents temptations nough for trickery, without the intervention of a policy which induces men who may have the will, though not the courage, to be honest to take advantage of the ignorance of their customers to break their contracts in the letter, if not in the spirit. There is another reason why the furnisher should be allowed to work in his own way, but which, as it is of a more general nature, and touching rather public than private weal, may be considered as resting on too transcendental a basis to be worthy the consideration of practical men. It is this—that by tying down intelligent men to fixed rules, the genius of the country is prevented from developing itself in the discovery of new mathods, or the perfection of those already in use.

As regards the continental methods of manufacture, it is not a little interesting to notice the different courses pursued in different countries. Ge-

As regards the continental methods of manufacture, it is not a little interesting to notice the different courses pursued in different countries. Generally throughout Germany, as will be seen by reference to my former article, the greatest possible attention is paid to the composition of the packet. The plates destined to form the head and flange of the rail are rolled from separate packets; the nature of the strains which the head, flange, and rib, are severally to sustain are carefully ascertained, and that description of iron best calculated to resist such strains placed in those parts. Theoretically this system is correct, but in practice a difficulty presents itself which, unless the greatest precautions be taken in working up the rail, will neutralise all its advantages. I allude to the probable imthe rail, will neutralise all its advantages. I allude to the probable imperfect welding of the packet, when composed of two, three, or even four different natures of iron, each having, perhaps, a different welding point. What is the advantage of having the head of the rail formed of such a superior quality of iron as to nearly approach the character of steel if it be liable, from inevitably imperfect workmanship, to split off entirely, and leave the rail completely decapitated? Nor is this merely a hypothetical contingency—on the contrary, it is one that has frequently occurred—for example, the Rhenish line, of which I speak in my previous paper, after procuring rails of a good theoretical composition, had the mortification of

seeing the heads after three or four years of service, dissolve partnership with the rib under the pressure of the wheels, or else chip off at the corners; in fact, the tendency of the grinding crush of the driving-wheels of a locomotive is as much to burst open the welds as to use down the rail by regular wear; and care should be taken in endeavouring to counteract one cause of deterioration, not to aggravate another equally, if not more, menacing; all this from a technical point of view, and without touching on the subject of increased cost. It appears to be owing to the greater necessity of well working up a packet composed of so many different natures of iron that in Germany the thorough use of the hammer is so strongly insisted upon. In France and Belgium the effort seems rather to be directed towards increasing the homogeneity of the packet, and the suppression, or rather non-introduction, of the preliminary treatment by the hammer. In the example I give of Belgian rolling-works it will be seen that nothing (almost) is used but raw puddle-iron, and the packets are taken direct from the welding furnace and rolled. In France this system has also many advocates; and M. Charles Lan, one of the most enterprising and intelligent French metallurgists, gives in his adhesion to it in one of the livraisons of the fourth volume (1859) of the "Bulletin de la Société de l'Industrie Minérale," where he says: trie Minérale," where he says:

trie Minerale," where he says:—

"In France even this process has been employed; we knew of one forge in the centre where the experiment, tried on 500 double T rails, fully succeeded. The top and botton plates of merchant iron were suppressed, and the packets composed exclusively of puddle-iron, granular for the running faces and fibrous for the rib. As these packets were made considerably scider than high, in order that in bringing them down to the square form they might be powerfully compressed on the edges, the shape of the roughing grooves had to be somewhat modified, but with this exception the operations were all conducted with the ordinary stock of the works. At the receiving depth on more rule were refused on account of cracks, than when the covers of merchant from were used (about 4 per cent. in either case), moreover, no case was observed of the weld's opening. The rails, placed upon supports 1 '29' metres apart, supported a pressure of 28,000 kilos. (over 61 fe00 lbs.) before breaking, and the break perfectly homogeneous, presented a handsome grain, which many ironmasters would have styled that of puddled steel."

I hope these few remarks may to some extent stimulate investigation.

many fronmasters would have styled that of puddled steel."

I hope these few remarks may to some extent stimulate investigation among competent men into this most important subject. My own belief is, that as no branch of industry can permanently retrograde, the day must arrive when such improvements in the manufacture of steel will take place as will render the production of cast-steel rails possible, which, with the introduction of metallic sleepers, some improvements in the join (one of which certainly is placing it between two sleepers, a system now introduced in some parts of Germany), and I may add, the use of cast-steel wheels (already mach in use in Germany) or, at least, tyres, as made at the Firminy Steelworks in France, will render this department of railway engineering as nearly perfect as our present ideas on the subject permit us reasonably to look for.—Heidelberg.

E. Sherman Gould, C.E.

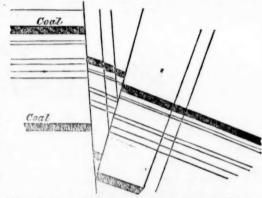
ON THE HEAVES AND THROWS OF LODES

ON THE HEAVES AND THROWS OF LODES.

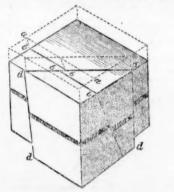
Sir,—I have read with great pleasure Mr. Ennor's letters in the Journal during the last few weeks on the heaves or throws of lodes; and if they do no other good than to awaken a spirit of enquiry in some minds, and give a direction to that spirit in others, he deserves the thanks of the mining community for the manner in which he has brought this, to the miner, highly important subject before them. I have, however, felt more than a common-place interest in reading those letters, because that during the time I had the honour of occupying the position of teacher of practical mining in the late Truro Mining School, I based my lectures on this subject on the theory that lodes or veins were once continuous; that some veins were formed prior to others; that the more recently-formed vain intersected the once of prior formation, and, presuming a movement to have taken place between the segments thus formed, that the progress of those segments must of necessity be towards the points of the wedge-like pieces that are called into existence; and it is gratifying to find that the principles which I then adopted are so fully confirmed by a gentleman possessing such extensive practical experience as Mr. Ennor. That gentleman has not, however, sufficiently extended his remarks, having confined them to the effect produced on beds or veins in the direction of the motion imparted to the masses containing them, and consequently this theory is more open to the masses containing them, and consequently this theory is more open to objection than I consider it might otherwise be, since under certain con-ditions the most complicated effects may be produced by a single movenent in one direction

ment in one direction.

The effects produced on beds or veins contained in masses, separated from one another, and to which motion has been imparted, are of two kinds. First, a direct effect, showing a displacement in the direction of the movement. This is very apparent in all stratified rocks, and I think I cannot give a better illustration of this direct effect than is afforded by plate 28, in Mr. Greenwell's work, referred to by Mr. Tregay, in opposition to Mr. Ennor's views; but which, your readers must see at a glance, on the contrary abundantly confirms them. Mr. Ennor has also given some diagrams in which this effect is well illustrated, particularly No. 3, in the Journal of May 3. Second, a secondary effect, which is produced



on beds or veins traversing the masses which are displaced, and having a direction and inclination forming an angle with the line of motion, and I think this effect may be illustrated by the accompanying diagram, in which



the dotted line a a represents a lode or dyke in its original the lines b, b, b, b the same, after the portion d, d, d, d has be a represents a lode or dyke in its original position, and

the lines b,b,b,b the same, after the portion d,d,d,d has been depressed, and the whole reduced to a level. In this diagram the lode b,b,b,b is evidently thrown to the right, being a secondary effect, and it is equally evident that is occasioned by the downthrow of the portion d,d, as seen by the positions of the black line representing a coal seam, the throw of which is produced by the direct effect of the movement.

In this secondary effect the direction of the heave depends on the inclination of the lode. In the example given, had the inclination been in the opposite direction the heave would have been towards the left hand, and I have little doubt that Mr. Tregay's diagram, No. 2, can be fully explained on this principle, when all the facts respecting it are known. We must not expect to solve one of Nature's most abstruse problems from imperfect data. I would not assert, however, that every example can be explained on the principle in question. Nature is not confined to one mode plained on the principle in question. Nature is not confined to one mode of action; still I believe that a greater number of heaves can be explained by the supposition of a movement of portions of the earth subsequent to

the formation of such veins than by any other theory, beside simplicity of this theory renders it easy, of application, and highly important to the practical miner. demy, 4 Myrtle-street, Liverpool.

LIFE IN COAL, &c.

LIFE IN COAL, &c.

Sir,—Now the subject of the origin of coal is mooted, can any one be more appropriate than what Mr. G. F. Goble starts? For it is creatures were ever discovered embedded in stone, as some people as surely it would not occupy much mental research to verify the most object of the most in solid coal coale no doubt, some who read this Journal would, probably testify the (if any ever did occur) of reptiles being found alive in solid coal coale not the world that coal could not have been originally formed from the the world that coal could not have been originally formed from the Plutinist imagines; or from sea-weeds, or any of the other have ague hypotheses. Unless life can remain in certain places beneated, or ceiled, far beyond the ordinary period of breathing same at any rate human reason under its present constitution cannot be believe corruptable organisation can exist entire amidst such add man at any rate human reason under its present constitution intact for any Nevertheless, if healthy animals can get suddenly incased while in an autural stupor out of reach of light, motion, and atmosperic influence can they die till they again attempt to breathe? Then it is retien the till they again attempt to breathe? Then it is retien the takes place, no suffocation or death can ensue, unless by composite takes place, no suffocation or death can ensue, unless by composite properties of the control of the control

sleep till roused again to renew action, &c.

Could ever human souls and bodies, when in the vigour of but so entranced as to be quietly, quickly, and closely entombed, as an nially placed where neither air, water, fire, or earth could serious them, such immured would neither die or corrupt.

GOLD IN WALES.

SIR,—Once more, I have no wish to cross lances with Mr. Emilikins on a subject which he understands much better than I. He

Sir.,—Once more, I have no wish to cross lances with Mr. Em likins on a subject which he understands much better than I. It is however, to write in a public journal so that no wrong impressing a sons may be generated in the minds of readers, some of whom arises of knowing the facts of the case, and the variety of opinions there. It communication is only intended to explain two or three things. That I most certainly have no reason to be enamoured of Beslay, but as two of them at Clogau obtain 18 ozs. of gold weekly, from like of stuff, I see no reason why they may not be allowed to work themses death, provided the tailings are taken care of for treatment in audier. That I never for an instant put any machinery, whether ensuing grinding, in comparison with Cornish stamps, on the score of many the more reduction of quartz. This would be simply aband.

That I am still of opinion that no one process of gold extraction is to suit equally well under all circumstances.

That speculation is not likely to run wild in this district, as in 183 for many reasons; although in the face of the fact that 3 cm. of phaving been obtained from 700 tons of quartz from Clogat, is a rough manner, will make people desirous of trying to do so in deep a comparison with the comparison of trying to so in deep a manner, will make people desirous of trying to so in deep the comparison of a remunerative character, I do not know; I think in The Cwmhesian Mine may in the course of the year beprivale proper by testing the merits of both crushing and amalgamating process. In a copinion that 15 dwts, per ton may be taken as an average. If so, and in the core exists in abundance.—May 15.

The INVENTORS' INSTITUTE.

THE INVENTORS' INSTITUTE.

Sir.,—I was glad to read in last week's Journal that the inventor patentees have bestirred themselves, with the determination to end and form a really influential Association or Institute. I trust that and form a really influential Association or Institute. I trast the movement will be one that will go on, and effect what I and other so that instead of being a number of disunited, nay, even antagains dividuals, they may form a compact, united body, and hence lean sufficient power in the State to make the inventors' interest and is which must obtain the respectful attention of our statesmen ask per tors, so as to secure to the inventor the preservation and even imposso of those just rights of property in his productions, which he can common with all who labour in matters that the community on worthy of encouragement, and which have been so recently three worthy of encouragement, and which have been so recently three with annihilation by the heavy artillery of Sir William Amstragithe tactics of Mr. Ricardo, as well as by a more invidious opposition on, which does not propose to sweep away patent rights, lattle roughly emasculate them by harrassing inquisitions, forced lices, the like. Therefore, notwithstanding the Patent Law Amendment cicties which may be in existence, this Institute is much needed, say I trust, become of great service to the inventors' cause.

May 8.

F. W. Carst.

THE PATENT LAW, AND INVENTORS' RIGHTS

THE PATENT LAW, AND INVENTORS' RIGHTS.

Sign.—Having just had the opportunity of perusing the remarkely correspondent, Mr. F. Campin, on Patent Law, I have great placed in favour of the continuance of individual property in the exclains in favour of the continuance of individual property in the exclains inventions for a period sufficient to induce capitalists to incur he appears to the continuance of individual property in the exclains inventions for a period sufficient to induce capitalists to incur he appears to the formal patent rights are granted would, if carried ont, tend to prevent much of the patent rights are granted would, if carried ont, tend to prevent much of the patent rights are granted would, if carried ont, tend to prevent much of the patent rights are considered with a sufficient of the patent rights are considered with a sufficient of the patent rights are considered by the appears are only not desired because that public do not know its own interest.

The real interest of society is to have the earliest possible use of the greatest supply is to offer sufficient inducement, pecuniary or other, it is and largest supply is to offer sufficient inducement, pecuniary or other, it went on any large properties of the publication of money—which notorionally prevents a very large proportion from payment of money—which notorionally prevents a very large proportion from payments of myention to the payment of inventions—for vhich patent rights are granted.

In palliation of this folly, it may be stated that 4t is the general rule are ministration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration to exact a portion of the coasts of such administration for the means of t

the other goose—yelept." Inventor;" and society suffers less of to refrain from legally recovering his claim than it does by not which are kept secret, or taken abroad, for want of the mean England. Mr. Campin suggests that applicants for patents she does not state what about, but I presume he means the not vention. I have no very great faith in official administration perhaps, official might be more effectious than individual en objection to the latter being carried to any extent desired before the casily and efficaciously, they having the means of seeing floations, which no one else can. Their report that the aliet would, if accompanied by reference to its former publication, obtain a patent in most minds; but, as all human tribushing the desirable to afford an obstinate inventor—if carried retained to him, with the proviso that, as a present, he shall its infringement, unless he can satisfy the court his inventor for the opensor of obtaining his patent notwithstanding sets ranted to him, with the proviso that, as a present, he shall its infringement, unless he can satisfy the court his inventor of the possessor, in the absence of sufficient evidence to the control of the possessor, in the absence of sufficient evidence to the control of the possessor, in the absence of sufficient evidence to the control of the possessor, in the absence of sufficient evidence to the control of the possessor, in the absence of sufficient evidence to the control of the possessor, in the absence of sufficient evidence to the control of the provisional protection to at least twelve months, in many instances, much too short a period to determine the man and according previous to provisional protection—in sufficient evidence to the control of the provisional protection—in sufficient evidence to instance to indicate the provisional protection—in a factorial between the provisional protection—in sufficient evidence to the control of the provisional protection—in sufficient evidence to the control of the provisional protection—in suff

its obtainment.

I hope the above auggestions will not be assumed to in number of patents is my only object; I am equally onditions of inventions is also greatly required; but I can set out, at least, partially removing the pecuniary obstacle to protection; were this granted gratis, and its period extends all from requiring the inventor to pay for his patent, and the cost of a patent, in addition to the prefers and the injustice of requiring the creator of this addition for its protection (over and above paying his share of grant protection (over and above paying his share of grant particular of the protection (over and above paying his share of grant protection (over and above paying his share of grant particular protection (over and above paying his share of grant paying his paying his share of grant paying his pa

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to induce him to conceal the result of his mental labour, or, as too often occurs, to induce him to conceal the result of his matter, less unjust than ours.

SAFRED SAVAGE.

LONDON AGENCIES, AND CORNISH MINES.

LONDON AGENCIES, AND CORNISH MINES.

— A few weeks ago, I observed several letters, as well as remarks of your own, on the street white London Agencies for Cornish Mines. I was much struck with the self-street was a several letters, as well as remarks of your own, on the struck with the self-street was a several letters and the several letters and the several letters are the several letters and the several letters are several letters and letters are several letters are several letters and letters are several letters and who are warded holders, whose money had assisted in making the discoveries, and who are their several letters are several letters are several letters are several letters are several letters and local shareholders of the several letters are several letters and local shareholders, or dealers, I look the greatest suspicion on the motives of these objectors. It must be clear to any sund meant opposed by the agents and local shareholders, or dealers, I look the greatest suspicion on the motives of these objectors. It must be clear to any letters are several letters and local shareholders, will take beyond a certain limited circle. I hope all those who are really interested in the letters are several letters. I have a desired to several letters are several letters, and enforce its adoption and practice, even at the risk of having to find other who will obey instructions, and perform the duties entrusted to them.

JUSTITIA.

PRACTICAL MINING—NEGLECTETIL MANA CENTANA

RACTICAL MINING-NEGLECTFUL MANAGEMENT.

RACTICAL MINING—NEGLECTFUL MANAGEMENT.

—A most serious accident occurred at the Powtan Iron Mine, Wadebridge, on a sight, whereby four poor fellows were instantly killed, under very disressing transes. They were engaged in "stoping" the iron lode, which, as I learn, is a most taminer-like manner. The lode is take away, and but little or not imber in, incept the miners have to go up against the lode to work on stages. Now, miser knows the liability of hanging iron lodes to fall away at a moment's notice, riste numerous joints and floors, and, therefore, the greatest acras should be taken, siy as the work can be performed in a safer and more economical manner. Just you men were about to ascend the ladder the lode gave way, and failing upon hilled them instantly. The properties of the properties

PENGENNA MINE.

-Soing that "A Shareholder" asked Mr. Ennor as to the result of Pengenna is aswer have only to say that Mr. Ennor gave up the management of the mine held for Spain. We have been driving on the deep ndit to get under the progise found east of the cross lode, and have sunk a new shaft from surface. We setting in under the promising lode where Mr. Ennor expected to find ore, and appr tess that we have now a lode in the adit end worth 1 ton of lead per fin. set lode a man cannot see in any mino. This mine has raised thousands of tons and nothing is yet done under the adit.

The adit end is all it madden ground.

EMANUEL HITCHENS.

WHEAL LUDCOTT AND ITS MANAGEMENT-THE

t, as in 1888B cwts. of gr gan, in a ve in other place know—when I think it is

rivately pro-rocesses. Go a, and I sa . If so, and t to pay well A. READWIL

e inventors a tion to comb I trust that I trust that I and others had of inventor antagonishi thence becomes to eo of a men and legal were improved in the caim amunity concently threats Armstrong an opposition of the comb I included the caim and the comb I in the comb

. W. CANE

RIGHTS.

OUT-ADVENTURERS AND THE PUBLIC.

The City Article in last week's Journal reflects with undue severity on the manest of this mine, in not giving sufficient and timely information to sharcholders apablic generally. The presumption on which this allegation is founded is that he has become suddenly rich. But, briefly, what is the history of the concern? years and nise months ago we commenced making profits, and paying dividends to mind to 1600f, and upwards quarterly, and have continued, with but one exception, andersing regularity at that rate to the present time. The exceptional quarter affectedly and satisfactorily accounted for by a series of very serious accidents to the sad its machinery. What has been the price of the shares during this period? aximum price 45. 8a., and the minimum price 40s., and at the latter price they ten sold within the present year. But has there been no official information suple and the price of the state and prospects of the mine during sid referred to? Have not the meetings been regularly held every quarter, and small different in the present year. But has there been no official information suplained with a secounts, accompanied with a full and explicit report of the mine, publated with the present year. And have not these reports been out by actual results, and numberless misgivings removed from the minds of an administration of market men), who have applied to me for more intimate information sever expected to be conveyed in general reports? Perhaps some of the out administration of market men), who have applied to me for more intimate information sever expected to be conveyed in general reports? Perhaps some of the out administration of market men), who have applied to me for more intimate information and properly of the sum of the days of the internal and the server expected to be conveyed in general reports? Perhaps some of the out administration of market men be regarded to the own of the market I am not to be taxed with the consequences. In the first explanations and appeals OUT-ADVENTURERS AND THE PUBLIC.

SOUTH CARADON WHEAL HOOPER MINE.

isouch Carradon WHEAL HOUPER MINE.

If our correspondent, "Honestas," had been a shareholder in South Caradon lieger he would have learnt, had he attended the last meeting, that steps were to be saken to receive the calls in arrear, which are not so heavy in reality as much able on make out, and others are owing by local shareholders, who are wish had been make out, and others are owing by local shareholders, who are discussuled the sake of "shallfulles" for more than the amount of calls they owe, more to forleture of shares, the company was originally formed in Cornwall, and for the foreign of shares was entered in the cost-book, so that proceedings for every of calls in arrear must be taken in the Stannaries Court.

J. Y. W.

RIBDEN MINE AND ITS MANAGEMENT.

RIBDEN MINE AND ITS MANAGEMENT.

-ian a large shareholder in this mine, and, like many others, I was anxious to at some perion of the hundreds of tons of ore had been got to surface that Capt. and Mr. Hanner stated in their reports of April 9 and 16 to have been already seed in the back of the 70 fathom level, west of Gilbert's shaft, and I attended a gift the shareholders, held yesterday at the White Hart Hotel, Uttoxeter, for that, but i regret to say that I was much disappointed when told by Mr. Niness that it on a straight of the 10 to 10 to

E TREWARMET DELABOLE SLATE QUARRIES.

The little of your correspondent, "E. H.," of April 26, wherein he clearly inrha latter of your correspondent, "E. H.," of April 26, wherein he clearly instal 18,000.1 have been spent on these quarries without return, is but lamely
at by his letter of this week explaining that he meant to refer to some worthless
it be district, and not to the above undertaking. Our time, however, is too
is be spent in further noticing the errors or misstatements of an anonymous
is the stancy appeared by the stancy anonymous of the stancy anonymous
is stancy aspects. In the expension of the stancy and the stancy
is stancy aspects of the stancy and the stancy and the stancy
is stancy and the stancy and CARRITT AND SON.

Mining is Wales—(from a Correspondent).—At the Clogau fearning is many in the clogau fearning is the constraint of visible gold worked in the 5 fathom level being cut very rich, and in the undertaking look upon the discovery as of a value which cannot can be the undertaking look upon the discovery as of a value which cannot can be the independent of the control of

at he surface.

P.C.SIC AT THE BOTTOM OF BOTALLACK MINE.—A party of gentle—of the surface.

P.C.SIC AT THE BOTTOM OF BOTALLACK MINE.—A party of gentle—of the surface.

P.C.SIC AT THE BOTTOM OF BOTALLACK MINE.—A party of gentle—of the surface of the shaft (Capita, John Rowe and Henry Boyns), were drunk, and the law and last fine law surface of the shaft (Capita, John Rowe and Henry Boyns), were drunk, and the law and last fine. I would be surface of the shaft (Capita, John Rowe and Henry Boyns), were drunk, and the law and last fine. I would be surface of the surface of

ly be over-estimated; and too much credit cannot be given to Capts. Rowe and s for successfully overcoming the very formidable obstacles against which they had stend—superintended as they were by the judgment and energy of the purser.

ROCKS AND MINERALS-MINES AND MINING-No. VII. BY EVAN HOPKINS, C.E, P.G.S.

ON THE JOINTY AND LAMINATED STRUCTURE OF THE PRIMARY ROCKS.

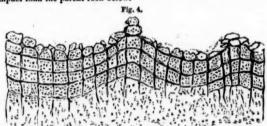
ON THE JOINTY AND LAMINATED STRUCTURE OF THE PRIMARY ROCKS. My late friend, Mr. Greenough (the first President of the Geological Society), in his "Geological Essays," written about 44 years ago, observed that "the word stratum is so familiar to our ears that it requires some degree of manliness to acknowledge ourselves ignorant of its meaning, and easy as it may seem to determine whether a given mass of rock be or be not stratified, there is, perhaps, in the whole range of geological investigations no subject more pregnant with controversy." Though so many years have passed away since these observations were made, and though during this period the science has made rapid progress, and though since I have been a member of the Geological Society (now nearly 20 years) I have taken every opportunity to agitate the question, and to point out the distinction which exists between the laminated bands of the primary series and beds of deposits, yet the word stratum is improperly used in connection with crystalline rocks to this day, to the very great detriment of practical geology as applied to mining.

tion with crystalline rocks to this day, to the very great detriment of practical geology as applied to mining.

In describing the fossiliferous rocks, or real beds of deposits, whether they contain organic remains or not, the term stratum is correct, however confused the planes of divisions may be. The word stratification implies a cause as well as a mode of form or deposition, and that cause is assumed or proved to consist in a mechanical deposition from water. Crystallisation from water will produce vertical and oblique lamellar plates in the masses derived therefrom, and oxidation and decomposition of surfaces, and various aggregations and precipitations, will display exfoliations and radial and mammilated subdivisions; yet none of these structures should be called stratified, according to the original definition of that term—i.e., beds resulting simply from successive mechanical depositions. If geologists continue to use the term stratum in the same indefinite manner as they have hitherto done in describing the primary as well as the sedimentary continue to use the term stratum in the same indefinite manner as they have hitherto done in describing the primary as well as the sedimentary rocks, we need not be surprised to find miners and others making use of the word stratum in connection with granite without any definite meaning. We have read reports in which it is stated that the stratum is granite! I thought it necessary to make the foregoing observations before proceeding further, inasmuch as it is essential that the reader should correctly comprehend what are the distinctions which are observed between semi-crystalline bands of primary rocks and beds of rocks resulting from mechanical depositions. The granitic and the primary slates belong to the same fundamental formation, the latter being merely a semi-crystalline transition from the granitic base. The annexed section (Fig. 3) represents a mass of granite, indicating a change near the surface from a compact granular texture into the flat and undulating lamellar structure, and divided by vertical joints into distinct blocks. tical joints into distinct blocks. Fig. 3.



This is a very common change in granitic rocks, and may be seen in Devon, Cornwall, Scotland, and Ireland, as well as abroad. Nor is this This is a very common change in grantic rocks, and may be accessed in Devon, Cornwall, Scotland, and Ireland, as well as abroad. Nor is this lamellar structure confined to granitic quarries; porphyritic and greenstone rocks exhibit the same kind of subdivisions, flat or curved, either horizontal or slightly inclined, resembling so much the character of stratification, that had it not been for the vertical planes by which they are often intersected even an experienced eye would at a distance be deceived by them. The subdivision of the granitic masses by joints or planes of cleavage are seen as perfect as in the real sedimentary beds; but on close examination we find that this structural appearance proceeds from the same cause as that which produces the divisional planes of the crystals of felspar, carbonate of lime, &c. It results from a semi-crystallisation, which has a tendency to produce geometrical forms in the aggregated masses as well as in the single crystals. The same power that forms the prism of quartz is also capable of forming a basaltic column. The geometrical forms vary according to the composition of the masses. The following section (Fig. 4) shows the granitic changes further developed. The entire surface being converted into rhomboidal blocks of granite, many of which become darker and more compact than the parent rock below. compact than the parent rock below.



In the "Report on the Geology of Cornwall and Devon," by Sir H. T. de la Beche, we find the following remarks, in page 163:-

In Beche, we find the following remarks, in page 163:—

"A very general structure prevails throughout these granites, and is more particularly observable in the larger masses. This structure consists in advision of the granite into portions resembling beds, which form tabular sheets of matter in the central parts of the masses, where they are extensive, the edges bend beneath the adjoining schistose rocks, and conform to the surface of the junction between them. The whole, therefore, has the general character of a stratified mass."—"This tendency to be divided or cleave in a stratiform manner is highly deceptive, and has probably given rise to the opinion so frequently expressed at one time that granite was stratifed."—"There are few ravines or const sections of the granite at its junction with the sinte, through which it has been protruded, in which this tendency to divide into statiform bodies is not observable."

"It is the intersection of the more or less perpendicular joints or divisional planes with this stratiform structure in the Cornish and Devon granite which gives it the appearance of being composed of malitudes of rectangular blocks, block being plied upon block, so that in good exposers, as on the sea coast of the Land's End district, the cliffs seem almost artificial."

It has been already stated that the constituent ingredients of the granitic It has been already stated that the constituent ingreatents of the graining masses not only arrange themselves to form the granular compounds, but also continue restless whilst they are surrounded with moisture, and remain in situ, to modify the structure by divisional joints, slaty cleavages, &c., especially on the outskirts. In rocks, as in crystals, the integrant particles are combined and arranged into forms more or less geometric particles are combined and arranged into forms more or respectations, if the rocks do not exhibit such symmetrical figures as perfect crystals, such as the six-sided prisms of quartz, the oblique rhomboid of carbonate of lime, the cubes of fluor-spar, &c., it may be accounted for by their more complicated composition, so that their forms are not the simple result of the aggregation of similar particles, but the balance of different powers, each total fluor to produce a different form. the aggregation of similar particles, but the balance of different powers, each tending to produce a different form.

Botanical Technicalities.—Though few sciences are more generally interesting than geology and botany, the necessarily large number of sechnicalities introduced into all treatises upon them has frequently deterred many from attaining anything like success. It cannot be denied that during our earlier studies in either science we require continually reminding of the exact import of the various technicalities met with, and hence it is that, unless the student is fortunate enough to have an experienced tutor constantly at his elbow to prompt him, his progress must necessarily be tedious and unsatisfactory. The best and most reliable substitute is, no doubt, a compendious glossary of the technicalities connected with the science he is studying—a glossary that he can rely upon, and instantly comprehend. With regard to the science of geology, Mr. Page's "Handbook of Geological Terms" is really invaluable, and Mr. M. C. Cooke, of the Twickenham Economic Museum, has now given us "A Manual of Botanic Terms," which is equally useful to the student in botany. In a small volume comprising only 90 pages of letter-press, and illustrated with two dozen plates, Mr. Cooke has given a complete glossary of all the technicalities of the science in present use, and we do not hesitate to say that by the careful use of the book a sound knowledge of the theoretical portion of botany may be obtained without tedious labour from any standard work upon the subject.

551, 19s, 11d.: number of passengers, 13,439,

Meetings of Mining Companies.

THE DEVONSHIRE GREAT CONSOLIDATED COPPER MINING COMPANY.

The eighteenth annual general meeting of shareholders was held at the office, Gream House, Old Broad-street, on Thursday,—Mr. W. A. Thomas in the chair.

ham House, Old Broad-street, on Thursday,—Mr. W. A. Thomas in the chair.

After the usual preliminaries, the following report of the directors was read:—
The directors, in submitting the eighteenth annual balance-sheet to the shareholders of the Devonshire Great Consolidated Copper Mining Company, have few comments to make upon the various tiens of the account.

It will be perceived that the number of tons of cre sold is less by nearly 978 tons than last year, realising a corresponding diminished amount of money. This has not arisen from any failure in the productiveness of the levels, but from the reduction of the samplings during a decline in the standard—a prudential arrangement, alike advantageous to the smelters as to the company, inasmuch as the "ticketings" are thus relieved from an over-supply of ore at a time when it is not absolutely wanted by the smelters.

The average quality of the ore shows a scarcely appreciable difference, being about 1-32 per cent.; and the average price obtained for the metal in the ore is only 3s. 6d. per ton less than last year.

1-32 per cent.; and the average price obtained for the metal in the ore is only 3s. 6d. per ton less than last year.

There has been no extraordinary item of expenditure since the last annual meeting. The mines' cost, if calculated with reference to the whole of the expenses incurred, shows a diminution upon each ton sold of about 3s. 11/3d. per ton. This, however, should not be relied on as a permanent reduction, arising, probably, from accidental circumstances. The timber imported is an increase, as anticipated, the gradual consumption of the stock in hand requiring constant additions. In the year ensuing the importation may possibly be in excess of the past year, as also the purchase of from. All the other items are but repetitions of each annual statement.

The dividends, the real test of profit, are 3l. per share less, which amount is about an equivalent to the value of the diminished quantity of ore sampled.

The balance of money in hand is greater, being 18,963l, 7s. 5d., as against 17,258l, 7s. 9d. last account.

last account.

The valuation of the property and assets of the company amounts to 98,6261. Its. 6d. and the estimated value of the available ore in the mines, which, calculated at 5t. per ton, the average price of actual sales, amounts to 28,9000t, making together 427,5261. Its. 6d. showing resources of which few mines can boast.

It has been the aim and endeavour of the directors, in the management of this valuable concern, to give it a character of permanency as great as unfining property is susceptible of; and, by maintaining a judicious regularity in the two-monthly dividends, to avoid an undue enhancement or depression in its value. The high estimation in which this company is held by the public sufficiently attests the correctness of the aystem pursued.

tem pursued.

In fortherance of the desire annually expressed by the shareholders of assisting the mhere to educate their children, the directors have established a school on the mines, which is attended by upwards of 60 children.

Copt. James Richards, the principal agent and manager at the mines, will, as usual, give a detailed report of the present condition and nature prospects of the department immediately under his charge.

The present directors beg to offer themselves for re-election, and the auditors are willing to accept office if re-chosen.

INCOME.

The present directors beg to offer themselves for re-election, and the auditors are willing to accept office if re-chosen.

Balance from last account
Carriage of ore outstanding per last account, since received.

Selection of the selection of t Total£122,084 7 9

•	EXPENDITURE.			
1	Mines' cost from Feb. to Dec., 1861, both months inclusive £	38,385	10	4
1	Mines' cost for January, 1862	3,209	10	1
1	Timber imported	2,650	18	
ı	Iron purchased	313		7
١	Water rent, one year, to September 29, 1861	432		
- 1	Tamar fishery, one year, to September 29, 1861	48	0	5
١	Rates and taxes at Taylatock	1,281	1	4
1	Income and property tax, three quarters, to Dec. 20, 1861	2,352		
- 1	Dues on copper ores sold, from January to December, 1861	8,521	6	
ı	Educational grant, voted May 14, 1861	100	0	
- 1	Compensation to resident director, one year, to December 31, 1861	600	0	0
1	Office expenses in London-Salaries, rent of offices, stationery, postages,		-	
١I	receipt stamps, printing, &c	702	2	8
: 1	Voted to directors and auditors, May 14, 1861	442		
1	Dividends paid, 43%, per share, on 1024 shares	44,032	0	0
1	Balance-Cash at the bankers£ 905 2 3			
П	Cash and stamps in the office 29 9 11			
	Cash at Tavistock 200 0 0			
: 1	Money at interest on call 9,577 12 7			
ı	Bills receivable 8,251 2 8=	18,963	7	5
в	_			_
١l	Total	122,084	7	9
9	CAPITAL AND LIABILITIES.			
~	Shareholders' capital, 1024 shares at £1 per share	1,024	0	0
t	Mines' cost for February, 1862, including merchants' bills	3,573	19	1
f	Dues on copper ore and mundic soid, viz.:-			
0	January 23, 1862			
0	February 20 650 19 6			
~	March 20 798 16 5=	2,113		
0	Income tax, poor rate, and other taxes, one quarter, to March 20, 1862	1,006		
0	Water rent and fishery, two quarters, to March 25, 1862	240		
a	Salaries and rent of office	325	0	0
	Ralance carried down	98,626		

Capt. Richards's report on the mines was read in extenso, and appeared to give satisfaction to the shareholders. The stock of ore in reserve in the mines amounts to 68,720 tons. Resolutions were passed receiving the report and accounts, re-electing the directors and auditors, and, after voting thanks to the Chairman and directors for their attention to the affairs of the company, the meeting separated.

EAST ROSEWARNE MINING COMPANY.

A general meeting of proprietors was held at the company's offices, Austinfriars, on nursday.

Mr. J. ROWLANDS in the chair.

Mr. E. King (the secretary) read the notice convening the meetings, and the minutes of the last were read and confirmed.

A statement of accounts for the four months ending December showed—

Leaving debit balance..... £ 102 14 1

BOTANICAL TECHNICALITIES.—Though few sciences are more generally neteresting than geology and botany, the necessarily large number of technicalities introduced into all treatises upon them has frequently deterred many from attaining anything like success. It cannot be denied that durage of the technicalities method of the various technicalities method on the strain of the various technicalities method on the st The report of the agent was read, as follows :-

patch. I purpose in the coming four months to sink Hallett's shaft by nine men.
Drive the 55 east by six men. Drive the 55 west by six men. Sink the 43 winze by
six men and three boys. Drive the 43 cross-cut by four men, and shortly to resume the
sinking of King's shaft by six men. Also to stope on tutwork, or set on tribute the
available ground, as may be advisible. I estimate the cost to be about 350£, per month,
and to return ore to the amount of 130£, for the four months; but as much depends upon
how the lode opens in Hallett's shaft and the 55 west, I cannot be definite; it is probable it will considerably exceed that amount.—J. JAMES.

The Challeman stated that the costs of the past four months, had been increased by

how the lode opens in Hallett's shaft and the 50 west, I cannot be cennite; it is promble it will considerably exceed that amount.—J. JAMES.

The CHAINMAN stated that the costs of the past four months had been increased by the expense of piscing flat-rods and cutting down Hallett's shaft below the 55. Those items of plant were charged in the statement of accounts just presented, in consequence of which there was a small adverse balance.

A SHARMODER enquired what were the prospects of the cross-cut going out from the north lode. Properties of the cross-cut going out from the north lode to the scattering the balance of a section, the position of the south lode, and the bunch of ore that had been met with on it at about the 12 fm. level. At the 22 a dead piece of ground was met with, and the lode became poor: a cross-cut was now going out from the north lode to intersect this south lode at the 45, which was some 8 or 10 fms. above the elvan course.—In fact, in such a position that he could not see why the lode being productive to the north, above the elvan-course, it should not make a course of ore in the parallel ground in the south lode. The agent stated if this should be found productive, the value of the mine would be very much increased.

Mr. Productive, the value of the mine would be very much increased.

The SECRETARY stated, for that distance the ground was certainly unproductive, but after passing through the elvan course for some two or three fathoms the lode became productive, and they were now sinking on a lode valued at 161, per fm. It seemed to him, from what had been seen in the 56, that they had a new shoot of ore forming under the elvan.

Mr. McCALLER encolved.

productive, and also were seen in the 55, that they had a new shoot of ore forming under the elvan.

Mr. M'CALLAN enquired the estimated returns and costs of the current four months? The Excharant replied that the agent estimated the costs would be something like 350l, per month, and that the returns would be 1200l, or 300l, per month; but much depended upon how the lode turned out in Hallett's shaft, and in the 55 west. If those lodes turned out productive, the agent computed that, the returns would considerably exceed the amount he had estimated; and, moreover, the computation was made upon the present standard. There could be no doubt the mine was turning out remarkably well. The lode continued to increase in size and value as depth was attained.

The report and accounts were then received and adopted.

Mr. Mcallan thought it would be advisable to make a small call, and enquired if the committee were prepared to recommend any sum?

Mr. Haklat (a member of the committee) stated that it was thought prudent to make a call of 1s, per share, which amount would be quite sufficient for all their present requirements. From the acent's report it would be seen that the bottom of the mine was opening up very satisfactorily; and he hoped their most sanguine anticipations as to the mine becoming a permanently paying property would soon be realised.

A call of 1s, per share was made, and the committee of management were re-elected. A vote of thanks to the Chairman terminated the proceedings.

ST. DAY UNITED MINING COMPANY.

A general meeting of shareholders was held on the mine, on the 9th inst., Mr. John Balsten in the chair.

Mr. E. King (the secretary) read the notice convening the meeting, and the minute the last were read and confirmed.

A financial statement for the seven months ending March showed—

	18	9				
98		6				
		8				
83	5	10				
04	8	5				
44		7				
83	5					
50	0	0=	£23,245	3	8	
76	17	5				
85	14	5				
58	19	0				
34	8	0				
77	5	3				
4	11	0=	11,237	15	1	
	11 83 04 44 83 50 76 85 85 85	11 10 83 5 04 8 44 16 83 5 50 0 76 17 85 14 58 19 34 8	11 10 8 83 5 10 04 8 5 44 16 7 83 5 11 50 0 0= 76 17 5 85 14 5 58 19 0 34 8 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11 10 8 83 5 10 04 8 5 44 16 7 83 5 11 50 0 0 = £23,245 3 76 17 5 85 14 5 58 19 0 34 8 0	11 10 8 83 5 10 04 8 5 44 16 7 83 5 11 50 0 0 = £23,245 3 8 70 17 5 85 19 0 34 8 0 77 5 3

Leaving debit balance£12,007 8 7

Mr. F. PRYOR (the manager) read the report, as follows : -

present company, which has left a profit ever since the mine has been working present company, and which never presented such good appearances as at pr Francis Prayor, Manager; E. Ralpi, J. Cock.

The Chairman said, before presented took.

Present company, and recovery the control of the accounts, he would say a word or two in reference to the handsome and exceedingly liberal manner in which the lords of the manor had treated the shareholders in these mines. He was glad to see present the representatives of the lords, and he had much pleasure in saying that they had agreed to give up the dues for two years, which he (the Chairman), with their manuger, estimated to be about 2400t. He, therefore, had great pleasure in proposing that the best the siks of the meeting be given to the lords, especially to Mr. Wittlams and Mr. Whitford, for the kind manner in which they had treated them.

Mr. Isaac of Liskeardy highly eulogised the liberality of the lords and their representatives, and felt great pleasure in seconding the proposition of the Chairman.

Mr. isaac (of Liskeard) highly eulogised the liberality of the lords and their representatives, and felt great pleasure in seconding the proposition of the Chairman.
This having been put to the meeting, was carried with acclamation.
The Chairman said the next matter he had to bring before the meeting was one of thance. The committee had fully gone into the accounts, and had also carefully examined the present and future prospects of the mine with the manager, and although the accounts showed a debit balance of 12,0071. 8s. 7d., the committee were unanimonaly of opinion that a call of Ss. per share was quite ample to carry them through, and enable them to place the mines in a sound and healthy condition, as they would have a considerable amount to receive from the lords, and also a large amount to be credited from the

derable amount to receive from the lords, and also a large amount to be credited from the sale of spare undersals.

Mr. E. Cooke said he should like to see a call made of 10s, per share, as that would enable them to clear off every liability to the end of March, and he thought that by doing so the public would have more confidence in the concern, as they would much prefer embarking their capital in a concern with no debts than they would where there was a balance against the mine. But siter looking, however, at the excellent prospects of the mine, together with the returned dues, and as the committee had, no doubt, gone carefully into the matter, he should support that the cail of 8s, per share be made.

Mr. HENRY GRYLLS said he had looked through the accounts, and he really thought sciat a larger call ought to be made, as they could not calculate upon the sale of the spare materials for some time, and, therefore, they could not take it as an available cases the present.—Mr. WATERS also thought that a 10s, call ought to be made.

The SECRETARY thought before they arrived at the resolution as to the amount of call, 8s, per share, being smilletent to discharge the liabilities, they should obtain from Mr. Pryor his opinion as to whether that amount would be a Miclent for all their requirements. From his thorough knowledge of the property, Mr. Pryor was well qualified to give such optition.

Pryor his opinion as to whether this amount country. Mr Pryor was well qualified to give such opinion.

Mr. Pryor expassed the greatest confidence in the tor the ordertaking. He had fully deliberated upon the question of call, and quite a seed with the recommendation of the committee—that a call of 8s. per share should be made.

After some further chassiston, a call of 8s. per share was made, to be paid in two instalment—is, per share in 39 days, and 4s. on or before Aurest 2, and no share or shares to be transferred unless the winder of the call be paid.

Mr. Payon, in answer to questions, replied that Ople's engine-shaft had been sunk 3 ms. below the 154, in a lode worth 20/. per fm. This shaft was going down in the centre of the run of ore ground; and is two months he hoped Trussell's engine would be turned idle, and the whole of the fish-rods drawn to surface. There would be two sumps going down in a splendid course of tin, 4s a distance of 35 to 40 fms, apart. From the value of the run of it in discovered for the whole length of ground in the 164, and the present ends still being worth 40/. each, he looked forward to making St. Day United one of the smost successful mines in the county. The present grice of tin was acting caused the successful mines in the county. The present grice of tin was acting caused the proposition of Mr. Paron, seconded by Mr. Cooke, the committee were residented, and a vote of thanks given them for their services, when the meeting was made special, for the purpose of reducing the number of shares from 20,000 to 4000. This /having been proposed and seconded, was carried unanimously, and thus ended one of

the most pleasant meetings (considering the amount of money called for from the share holders) that we have ever had the pleasure of attending.

ENGLISH AND CANADIAN MINING COMPANY.

The fourth annual general meeting of shareholders, having been adjourned from April 30, was held at the offices, Broad-street-buildings, on May 8 (Mr. ALEKANDER MORRISON in he chair), when shareholders, holding 1896 shares, were present.

The balance-sheet, duly certified by Mr. Thomas H. Gladstone (the auditor) was exhibited, showing the following results:— £42,758 2 4

2,695 7 10

 Preliminary and London office expenses, &c.
 1,507

 Capital paid in full
 £40,000
 0

 Interest, discount, &c.
 93
 7

 Billis payable outstanding
 2,026
 0

 Copper ore balance.
 1,264
 6

 Loan at 8 per cent.
 5,000
 0

 Month's advance due Mrs. Bennetts
 8
 8

 Due local committee of management.
 363
 2
 9=£46,753
 3

 1 999 13 5- 646 753 3

dressing to so high a percentage as that recently produced from the 30 fathom level, in Kent's shaft. Mr. Honett added that he himself was still much inclined to think very well of the undertaking, notwithstanding its non-success hitherto.

Mr. S. A. SEWELL, having visited the mines, gave it as his opinion that of the existence of ores in large quantities there could be no question. His inspection had satisfied him that the original capital would not suffice to make the property renumerative, and on his return be had suggested the propriety of raising fresh funds. He enquired whether Mr. Williams had continued prospecting, with a view to render available the mining capabilities of other parts of their extensive estate, besides those already worked upon. He described the mining mania as very strong in the Megantic district, and said that fabulous prices had been paid for lands in the vicinity of Harvey Hill.

Mr. Storakir (the hon. secretary) explained that costeaning had been rather extensively pushed forward last year, and had been rewarded by the discovery of three new lodes, at no great distance from Kent's shaft. These had been named after three of the directors, and two out of the three had continued to give from surface working very satisfactory results until winter put a stop to all operations exposed to the weather. Surface explorations would be resumed this spring, and continued as energetically as the means of the company would in pradence permit. He added that in the 30 fm. level, at Kent's shaft, a rich lode had been discovered, to which the name of Fanny Eliza had been given. This had at first yielded a very considerable amount of rich ore, but he regretted that recent reports state that the lode had become much poorer. He advocated perseverance in the works on an economical scale, in hopes of fresh discoveres, believing that success in these would operate most beneficially on the general value of the company's large estate.

Messrs. J. R. Morrison and W. Stobart, the directors who go out by rotati

etts, jun.
On the motion of Mr. R. Porter, seconded by Mr. S. A. Sewell, the best thanks of
the shareholders were unanimously voted to the Chairman, the board of directors and
he honorary secretary, for their able management of the company's affairs during the
ast year. The proceedings then terminated.

PROVINCIAL BANK OF IRELAND.

The S7th yearly general meeting of proprietors was held on Thursday, at the offices in Broad-street, Sir Minto Farquiar, Bart., M.P., in the chair.

PROVINCIAL BANK OF IRELAND.

The 37th yearly general meeting of proprietors was held on Thursday, at the offices in Broad-street. Sir Minto Farquhar, Bart., M.P., in the chair.

The advertisment convening the meeting was read.

The Charman and the board had ealled the proprietors, as usual at this time of the year, for the purpose of receiving the annual report of the directors. The advertisement having been read, they would proceed to the election of the directors; and, that business finished, the secretary would read the report.

The retiring directors, Messrs. Matthias Wolverly Attwood, Bonamy Dobree, jun., Elilot Macnaghten, and Sir John Young, Bart., were severally elected unanimously.

The SECRETARY then read the following report to the proprietors:—

In meeting the proprietors on this occasion the directors will, as usual, refer briefly to some of the distinguishing features of the past year. They regret to state that it was not a year favourable to the interests of the past year. They regret to state that it was not a year favourable to the interests of the agricultural or trading classes in Ireland. The summer and antum of 1861 turned out very wet and ungental, and the produce of the harvest was much under an average; while the potato crop, also, was very deficient, and of inferior quality. This being the third unfavourable season in succession, the result has very injurious to the agricultural classes, especially to the numerous small armers, who depend mainly on tilinge. The country trade necessarily suffered in consequence of the diminished resources of the farming classes, while, at the same time, the linen trade, a staple manufacture throughout the North of Ireland, has been materially interrupted by the unbappy civil war in America. These circumstances have rendered it necessary for the directors to excrete the greatest care in conducting the business of the bank in Ireland, while, on the other hand, they have readily met the demand which arose for increased accommodation whenever it could be pra

The account submitted to the yearly general meeting in May, 1861, showed the amount of rest, or undivided profits, at March 30, 1861...£251,693 8 5 Out of which there has been paid to the proprietors the amount of two ordinary and extraordinary dividends, as follows:—
At Midsummer, 1861—Ordinary divi-

Making the rest, or amount of undivided profits, March 29, 1862. £255,048 19 9

Out of which the directors intend to pay, in July next, an extraordinary dividend of 30s, on each 100%, share, and 12s, on each 10%, share of the capital stock of the bank, in addition to the ordinary dividend of 4 per cent., making the smoont to be then paid 2%. 10s, on each 100%, share, and 1%, on each 10%, share, and 1%, on each 10%, share, and they will also, as heretofore, pay the property tax for the proprietors.

The CHAIRMAN, in moving the reception of the report, said he thought he should have very little to say on this occasion, as the points of special interest were touched upon in the report, and he had really little to add; but he could not take the chair without the the report, and he had really little to add; but he could not take the chair without the expression of his regret that his tried and valued friend, Mr. Oliver Farrer, who was to have taken the chair, had declined to act in that capacity, as he did not feel well, and he (Sir Minto Farquhar) was, therefore, called upon to take his place. When he spoke of Mr. Farrer as a tried and valued friend, he was truly that to the proprietors of this bank, and he hoped he would often again fill the chair. (Hear.) With reference to the report, every man who was a proprietor in this bank, which stood high in public estimation in Ireland, must be aware from the reports which had oppeared in the papers, that the agricultural position of that country had not been equal to what it had been in recent previous years. The secretary had read to them a statement, showing that there had been three successive deficient harvests, a fact which must, of course, most materially affect the country, and increase the distress among the poorer classes during that period, and also small traders and farmers, who derived their supports from agricultural pursuits. But, notwithstanding the depressed condition of the small farmers and the retail tradesmen, the improvement in the culture of the land, and of drainage especially, continued, and the prices of entitle were so high that the gasing farmers had been esmen, the improvement in the culture of the land, and of drainage espeed, and the prices of cattle were so high that the gazing farmers had been pressure than those who were occupied in tiliage. In reference to the

distress which exists in accomparison with that which three years it was small in comparison with that which peared that, whereas in 1851 the poor law expenditure celved in-doors being 706,278, and the number out of a 1861 the expenditure of the poor law was 516,7691, the control of the con distress which existed in Ireland, it must be stated that while it three years it was small in comparison with that which existed to pearett that, whereas in 100 me. The poor has expension was 1402.00 cerved in-doors being 706,278, and the number out of doors being 1861 the expenditure of the poor law was \$16,7694, the number wit to 1869. Since the year 1860 and 1861 there had been an increase it he annual report of the Commissioners for administering the law it poor in Ireland, published this year up to September, 1861, showed it here would be a considerable increased expenditure to record at the rew could be a considerable increased expenditure to record at the cost of the workhouse maintenance (the sure and undeviating in 1861-62; but, on the other hand, the prices of food were lower than the cost of the workhouse maintenance (the sure and undeviating in 1861-62; but, on the other hand, the prices of food were lower than the coust of the workhouse maintenance (the sure and undeviating the 1861-62; but, on the other hand, the prices of food were lower than the country, as \$1,000 and 1861 the expenditu 203,422, and the nu to 1869. Sin The board intended to build a new banking-house in Dublin, asdaleous, were required from the necessity of increasing and extending the estable them better to carry on their business. He had very little more to sq.', express his satisfaction (taking into consideration what had panel, a tions which had occurred in the value of money, as read by the seem were still able to offer the proprietors a dividend at the rate of 39 per on now done for several years, and to make, at the same time, a small ability had been also been assembled to the same time, a small ability of stating that the board had every means to the same time, a small ability of the same time, a small ability of the same time, a small ability of the same time, a small ability had been that the board had every means most fortunate in having the services of their superintenden, in, and, especially when that gentleman was so efficiently and administ their secretary, Mr. Hewat. In conclusion, he begged to move that then printed, and circulated among the proprietors.

SIF BURTON MACAMARIA wished to know, as the subject of the disma Ireland had been alluded to, whether this bank had subscribed to the trees. He was much pleased to know that the board had subscribed to the sort Textimonial.

Ireland had been alluded to, whether this bank has subscribed to the rised trees. He was much pleased to know that the board had subscribed to the rest Testimonial.

The CHARDMAN replied that they had subscribed in every case. They had refused any appeal made to them. He believed they had contributed shelling mitigating the distress in Ireland.

Mr. OLIVER FARRER having acconded the motion, it was carried unseined Mr. OLIVER FARRER having acconded the motion, it was carried unseined which had often failen to his lot—a privilege which he here required which had often failen to his lot—a privilege which he here required they have had been failed to his lot—a privilege which he here to privilege which had often failen to his lot—a privilege which he here required they have a subscribed to the health of the

anager of the whole.

The resolution having been put, was carried with acclamatics.

Mr. Hkwar, on behalf of Mr. Murray and himself, expressed hecctors and proprietors for the kindness which had been shown

lirectors and proprietors for the kindness which had been snown town to the cocasions.

Mr. Phill.IP TWELLS move a vote of thanks to the Chairman and directs, a direct shall be compared to their able management of the affairs of the compare shall be strated by the dividends which they had declared. The proprietors had sen actuants in having the affairs of the bank administered by a board of guillens i judgment, and of an enterprising spirit.

Mr. WALTER LUCAS seconded the motion, which was carried unanimonity. The Chairman thanked the proprietors on behalf of himselfand colleagues in two too of thanks, which had been carried so continue, and he open different continue to deserve this favourable expression of feeling. They would all deep rested allke in the success of the bank. The interests of the director and disapproprietors were identical—they went together. (Applause.)

TRUTH'S ECHOES: OR SAYINGS AND DOINGS IN MIN

There has been considerable activity in the Mining Share Market during St reek; the preparation for the settlement and Account-day (which came of a week; the preparation for the settlement and Account-day (which cose deay), the great demand and rise in several stocks, together with the semiof the week, have all tended to create a busy week. The rise which has take
been in East Caradon, Ludcott, East Carn Berl, Whele Greater
of which extensive dealings have followed. The Account passed of a sual,
a fair supply of shares, although East Caradons were rather short wis a
fair supply of shares, although East Caradons were rather short wis a
fair supply of shares, although East Caradons were rather short wis a
fair supply of shares, although East Caradons were rather short wis
a fair supply of shares, although East Caradons were rather short wis
a fair supply of shares, although East Caradons were rather short wis
cardinal following the control of the short of the states of the states of the share of the constant dealings will, no doubt, bring them to their former prise. The
which has taken place — Marke Valleys on the states of the stock will, no doubt, bring them to their former prise. The
which has taken place at the states of the stock will, no doubt, improve the price. The demand and consequent
— West Rose Downs continue being sought for, but still scare. — First
have experienced an extraordinary rise, and although they received a limit of
for the stock will, no doubt, improve the price. The demand and consequent
lowed the announcement of the sale of sliver which took piece of study
NORTH PHUSINS continue in favour, but from the scarcity of shares for the
MARY ANN and Terlawny have been rather quiet. — Henostero fail
market quotations. — South Tologs and Great South weeks a
lin demand, and prices have consequently advanced. — West Tologs offers
Carn Bleas have been largely dwelf in; they took a sudden rise, and
in demand, and prices throughout the week. — Whell and sellers so just
the quoted prices throughout the week. — Whell and sellers so just
advanced. — NORTH DOWNS and NORTH Treskers have been deal in,
advanced. — NORTH DOWNS and NORTH Treskers have
b day), the great demand and rise in several stocks, together with the great

EAST BASSET, NORTH RONKEAR, and North Chorty have changed hash a prices,—"The north shave advanced, being in request, and sells as a significant of the quoted prices throughout the week.—"Werker Green's and price fine." CARN BREAS have been largely flowed in; they do a sudden rise, and sirys the quoted prices throughout the week.—"Werker Green's and sirys they do and the little done has not been at improved rates.

New SORTH DOWNS and North Treakers have been deal it, set have not advanced.—"North Downs and North Treakers have been deal it, set have not advanced.—"TotayaDura and Rosewer Hills and Rasse has a quiet, and the little done has not been at improved rates.

New SORTH CALADON have been in full request, and share improved.—"East Conside, East Gensis Lake, and North Robert and share improved.—"East WHEAL JORGE and GRASGOW CARADON between equived for, in business rather limited.—"Wieled Green's Carabon baye been equived for, in business rather limited.—"Wieled Green's Carabon baye been equived for, in the state of the shares.—Bux Gwoods have been dealed for the state age of enquiry for Lowe Rake shares, but the transactions have been for exists a good enquiry for Lowe Rake shares, but the transactions have been for shared.—Bux Gwoods have been dealt in at marke entire the state week worth from 2 to 2½ tons per fathon, and a reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 2½ tons per fathon, and is reported to have dained in late week worth from 2 to 20 tons and 1 to 100 tons and 1 tons

SILVER are quite as Mine during tent.; 7 lbs maim or st from a a m be reparded about the a OLD W

Ter

pros Cossous continue to hold out much promise, and although the expected pros Cossous continue to hold out much promise, and although the expected for in the 50 has not yet taken place, the ground has become much easier, with right in the 50 has not yet taken place, the ground has become much easier, with right in the provided property of the improving easier may be fully expected.—WEFT DEVON is reported to be improving easier may be fully expected.—WEFT DEVON is reported to be improving easier and the loads being it in, wide, of a very promising character, carrying easier object ones and tooking well for further improvement in sluking.

Left they have communicated the 45 to the 55, and resumed driving the latter being presented to the provided provided provided the state provided to the provided provided provided to the following the same spot work for lead; and the 14 west, on the middle lode, is yielding that some good work for lead; and the 14 west, on the middle lode, is yielding that per middle is worth of the prime of the provided provided to the provided provi

The state of the water bar to look remarkably well. The 50 east is worth from the state of the s

sily; this was expected to have been repaired by wednesday last, and the water in come of forking.

A Cossula Mark continues to hold out much promise, having several important as (ossula Mark continues to hold out much promise, having several important senting off, which when effected will augment their returns. The carbona is without the property of early improvement in selignoriant places.

sis to 1040. 12s. 6d., sharing a credit balance of 9836, 6s. 1d. The mine is resting to 1300. 12s. 6d., leaving a credit balance of 9836, 6s. 1d. The mine is reting to 1300. 12s. 6d., leaving a credit balance of early improvement in set is be tooking very well, and holding out promise of early improvement in set is proposed. It is not be tooking very well, and about dropping the lift to the 16 fm. level. A season below the deep adit, and about dropping the lift to the 16 fm. level. A season below the deep adit, and about dropping the lift to the 16 fm. level. A season below the deep adit, and about dropping the lift to the 16 fm. level. A season below the deep adit, and about dropping the lift to the 16 fm. level. A season level and lev

Ellis year.

All Birs Gwing the shaft is in course of sinking below the 75 on a good lode of lead, worth 4 tons per fathom. The winze sinking below the 66 is also worth 4 tons falten, and down about 5 fathoms. This winze is about 25 fathoms west of the fit is supposed to be the same run of ore as seen in the shaft. Should these failive point continue good for a few fathoms longer a very valuable mine will be 1998, and a large quantity of ground available at a small cost.—LosG Rake engined has been resumed with a fall complement of men, who have bargained to sink the fabous, with every necessary work, complete for 2501.; the lode is worth 1 ton per fall. The 60 seat is being divien on a productive lode, leaving good backs, and will stip be communicated with No. 2 winze, when the returns of lead will be doubled, ms were soid last week, at 111. 18s. 6d., and 20 tons in preparation for next sale, leavillance proceeds to be lockly as a communication of the contraction of the same process.

will meet cost.

Manuson is reported to be looking very encouraging. The 20 end is yielding 15 cwts.

Jer fabbon, and the winze gone down about 5 fathoms under the adit has been

ky the 30, and they are now atoping east and west of the winze on a good course.

A parcel, calculated about 20 tons, has been sold at 121. 7s. per ton; this being

k als. Arrangements have been made for the immediate erection of a powerful,

and all other necessary machinery, which can be worked by water, having the

of a large stream, which can be applied and brought into use at a very little ex
JAMES LANE.

From Mr. EDWARD COOKE:—An almost unprecedented amount of busine has been done during the week, principally in the following mines—East Caradon, and Caradon, Wheal Grylls, Tolyadden, Great South Tolgus, Wheal Seton, Tincroft, &c. East Mann and Wheal Grylls, Tolyadden, Great South Tolgus, Wheal Seton, Tincroft, &c. East Mann and Mann a

the prea advantage of being worked with water-power, and is solitug at less 100%, "while more than that amount has, I believe, been expended in the operability of the present out." It is a considerable that have money to invest. It is that we arried out. To take the carbon is deserving of the attention of those who have money to invest. It is that the carbon will yet become a good divides: property again, and will be that the testing of the set of the past two months, will less of the past two months, will less of the past two months, and the result of the property of the past two months, will less of the past two months, and the result of the property of the past two months, and the result of the property of the past two months, and the result of the properties. I believe I am right in saying that 25 toos of the will be seen that the properties. I believe I am right in saying that 25 toos of the will be seen that the properties of the past time mines in Cornwall, and General and the properties of the showing good prospects of success. East Again, and working of the properties of the chappet in the properties of the chapet mines in a propersorus state, and working in the properties of the chapet mines in Wales. At lest Witerd Gravice of the chapet mines in Wales. At lest Witerd Gravice of the chapet mines in Wales. At lest Witerd Gravice of the dealth in the next level, of which there appears to be seen the properties of the the next level, of which there appears to be seen. The shares will have a considerable rise.

Godd in Recard the state of the the beats and working the chapet in the manse will have a considerable rise.

Gold in Ireland.—It is stated that while some workmen were sinking which the bounds of the Cullycupple Bleach-green, Aghadocy, County Derry, a shout 12 ft. from the surface, they came upon a mineral substance of the county, mixed up with sand, and which, when tested, has been found to contain on a substance of the county of the count County Derry, at

confirms the sings are with a for the bette ated. The same cut at that

real of the let points. The state of the let points. The state of the let points are s

SUVER MINING IN NORWAY.—The last advices from East Kongsberg AUGNET.—The last ndvices from East Kongsberg Am dering the last ndvices from Last Kongsberg Am dering the last week in April was 6 ibs, of silver, nearly pure, worth, say, 98 per akm or stamp ore; each time cantaining from 12 to 50 per cent. of allver; and 8 tönde of from a a mise which has only just been forked and cleared of stuff. This produce in musted more promising much for the future. From the Sundse Mine the yield was

OLD WHEAL NEPTUNE. OLD WHEAL NEPTUNE.—This rich old copper mine, which is situate at Manda, which pastity be put to work, after having been snapended for upwards of forty Tan. During the twaite years it was worked upwards of 400,000?. With opper at the present maked, though the standard at that time was but 90?. With copper at the present less sine will, without any additional discoveries being made, yield large conserved the standard of the sta

The NANT COLLIERY.—A local company, with a capital of 39,000L, in some ill. set, and on the limited liability principle, has just been formed for purchasignal varing the suited the suited principle, has just been formed for purchasignal varing the suited suited principle, has just been formed for purchasignal varing the suited principle of the suited principle. The thickness of the three scams aircedy proved is 20 ft.—the Maint
Market the Six-flee and A. 7 ft. 5 in.; and the Brassy cond, 3 ft. 6 in. A rich
as the suited principle of the sui

pit to be put in direct and Mold Railway.

SALES OF LEAD ORES.

The following are the returns for the quarter ending March

Mine	wing are the returns s.	Ton		Amount	
Minera		146			6
Dyliffe		74		9.216 7	0
Isle of	Man Company	32		6,225 12	7
Frongo	ch	476			ò
	twith				0
Wheal	Mary Ana	97	7		6
Gloefae	h	941			0
East L	ogylas	90			
Lavov	%y	*********** 29	0		0
East D		******** 20	0		0
Chile Di	arren	********* 31	2		0
	ton				6
Knosesi	mor	20	3		0
Cwm E	eran	15	5	2,324 8	6
Dyfngv	vm	17	1	2,080 3	0
Maesyr	rerwddu	13	916	1,805 19	3
Mount	Pleasant	14:	2	1,795 10	0
Westm	inster	15	0		0
Frank !	Mills	11	5		6
Gogina	n	9			6
Parry's	Mine	10			6
Llanere	chyraur	9			6
Cefn B	rwyno	10			0
Contin	Liys	10			7
	Gravels				
					0
Dann (rnach	9			0
	lwiog				0
	ck				0
			3	889 17	6
	Minera			800 13	1
Exmo	th	8	0	800 0	0
Penpon	npren	6	0	. 793 0	0
Deep L	evel	6	0		6
Rhosw	ydol	6	4		0
Newto	wnards	B	5		0
Llangy	nog	A	5		6
Llanfal	ir	2			6
Maesv	safn		0		0
	e Ucha		91/4		3
Aberdo					0
			91/4		3
	ell Level		0		0
Long F			0		6
	ark		9	. 353 1	6
Great	Daren	2	0		0
	rthen United		7		0
	h Coch		0	. 333 0	0
St. Pie	erre de Peona		5	. 327 2	6
Nant-y	y-Iago	7	6		0
Herwa	rd United	2	0 0		0
Brusen	piano	2	0 0		0
East J	ane	1	4		ő
Brynta	11		11/2		3
	Henblas		0	124 10	0
	ord Hall		01/2		6
Pant-	-Buarth	1			
					0
	nor		6		0
			6		0
	Bli		5		6
	Park		5		6
	ry		4		0
	Eleanor		31/4		9
	wen		334	. 43 9	9
West 2	Merilyn	*******	3		0
	elyn		4	. 32 4	0

SALES OF BLACK TIN.

Minera 100 £ 202 0 0

		-		
r	e following are the returns for the qua	rter ending March:-	-	
	Mines. To			
		9% £16186		. 5
	Great Wheal Fortune 10		0	0
		81/4 6323	7	7
			13	10
		4 4582		1
		63/4 4496	9	8
		314 4829		10
		06 4260	î	3
		111/4 2978	î	6
		8612 2823		2
	Basset and Grylls 4	114 2724	3	8
		914 1874		0
		1697	3	0
		714 1665	7	6
	Great Wheal Busy 2	23 1391	6	8
	Gariidna 2	2014 1349	2	10
	Wneal Buller 2	20 1315	11	2
		1914 1306	5	8
	North Wheal Busy	1300	17	6
	Wendron Consols 1	19 1290	16	0
		734 1245	3	3
	Roman Gravels 9	314 1174	10	7
		514 1065	4	11
		434 1004	5	1
	Gurlyn 1	1434 980	19	0
	Wheal Tremayne 1	14 793	11	3
	Boscaswell 1	214 749	14	6
	South Carn Brea 1	11/2 727	7	0
	North Levant	9 599	16	6
	Pedn-an-drea	8 514	5	8
	West Seton	71/2 466	18	0
	Trevenen	6 410	9	6
		5 340	7	0
		5 339	14	8
		41/6 323	15	7
	Cuddra	5 311	17	10
	Redmoor	4 268	0	0
		4 259	0	0
	Wheal Union	234 181	6	6
	Wheal Norris	34 49	7	0
	East Wheal Lovel	114	14	6

FOREIGN MINES.

	W			- market			
COPIAPOChec	o: Estimate	l pro	luce fo	r March:			
	Q	uantit	y.	Ley.	Price.		Value.
First class dark or Second class ditto	eQtls.	1056	******	40}	\$26%	::::	6206-90
Third class ditto		540		15	10		675.00
m	011-	0000					0001-00

which is ore of about 10 per cent. If we can once get the water out of this part of the mine we shall so on see what it is worth, and have satisfaction—hoping that will be in a month or two.—Geologe MATTHEWS.

LUSITANIAN.—May 5: Palhal Mine—Basto's Lode: The lode in the 50, west of Englyor's shaft, the lode is 46, composed of quartz, flookan, and stones of ore. In the 50, west of the Silde lode, there is a branch 6 in, wide, but unproductive. In the 38, west of Applor's shaft, the lode is 3ft, wide, a great proportion of which is flookan, with quartz and stones of ore. The lode in the 28, west of the Silde lode, is 15 inches wide, worth 1 ton of ore per fan. In the 18, west of Abel's winze, west of the Silde lode, worth 1 ton of ore per fan. In the 18, west of Abel's winze, west of the Silde lode, the lode is 6 in. wide, composed of quartz and small romes of ore. In the 8, west of Perez shaft, the lode is worth 1 ton per fan. The lode in the adit, west of Perez's shaft, is worth 10 ton per fan. In the stopes No. 1, above the 50, west of Ernesto's winze, the lode is worth 1 ton per fan. In the stopes No. 2, above the 38, west of Clondino's winze, the lode is worth 1 ton per fan. In the stopes No. 3, above the all level, west of stopes No. 9, the lode is worth 1 ton per fan. In the stopes No. 4, above the 58, west of the stopes No. 2, the lode is worth 1 ton per fan. In the stopes No. 4, above the 58, west of the stopes No. 2, the lode is worth 1 ton per fan. In the stopes No. 4, above the 58, west of the stopes No. 2, the lode is worth 1 ton per fan. In the stopes No. 4, above the 58, west of the stopes No. 2, the lode is worth 1 ton per fan. In the stopes No. 8, above the 50, east of Taylor's englue-shaft, is worth 114 ton per fan. The lode in the stopes No. 9, above the 50, east of Taylor's englue-shaft, is worth 1 ton per fan. The lode in the stopes No. 12, above the 50, west of 50 flooks and quarts, winth stones of ore. The lode in the stopes No. 11, above the 50, west of 10 dels is worth 1 ton per fan. In t

Roure: The stoller, south of Agnes shaft, has improved in appearance, and orey for the whole width of the level. The lode in the adit level, south of the same shaft, is producing the same as last reported. The 20 metre level south produces 1/4 ton of ore

per fin. The 40 metre level south is producing I ton of ore per fin. The 60 metre level south has entered the run of ground driven in the level above; the lode is now worth 1/2 ton per sitthom. The 60 morth is still improducitive. Our atopes yield well. Our south of the little shaft, in the little shaft, on the little shaf

of silver ore have arrived at Liverpool; 103 bags at Southampton, and 66 bags more advised as shipped.

CLARENDON CONSOLS.—J. Martin, April 21: Stamford Hill: The engine-shaft has been sunk about 4 fms. below the 94. The lode in the south-west end of the shaft is composed of red flookan, and at times spots of ore; the lode in the east end of the shaft is broken up by a cross-course. The lode in the stopes in the bottom of the \$2 is worth ½ to ne fm. The lode in the \$2 st south-west is about 3 ft. wide, and composed of kilias and mundle. We have about 16 failtoms to drive in this end to get under where we have the ore in the 70: no time shall be lost in pushing on this driving. The men are now engaged in cutting out the south-east part of the lode in the 70; we have cut into it to date about 4 feet, and find it to be composed of ore and porphyry, with carbonate of lime and quartz; the south part looks as if it had been a separate lode from the north. The north is about 3 ft. wide, composed of gassan and velns of yellow cre, grian, and peach, and letting out a large stream of water. We have driven about 3 fms. since we cut the cre, and the lode appears to have as much oreas when first cut. Of the lode in the winze, sinking in the bottom of the 46 we have about 4 ft. in the winze, and no north wall; the part we are carrying is composed of green carbonate and gossan, prian, and at times yellow ore, similar to the yellow ore we have at the 70. We have a little water in the winze, which, if it does not decrease, will enable us to sink with speed, and thereby ventilate the 70. This work should be pushed on with vigour.

COAL TAR COLOURS.—To the mining community every fresh application of mineral products to industrial purposes must be of considerable interest, as it cannot be denied that the tendency of all such movements is
to augment the profits of mine adventurers, and increase the confidence of
capitalists in mining enterprise. Some few weeks since we referred to a
new manganese dye, but as yet the discovery can scarcely be regarded as
perfect, and coal tar colours are still the most attractive. During the past
week Prof. J. H. Pepper, F.C.S., has superseded his lecture at the Polytechnic Institution on Accidents in Coal Mines by another also indirectly
connected with collieries—On Colour in general, and Coal Tar Colours in
particular. He treats the subject in his usual lucid style, and the lecture
is copiously illustrated by chemical and optical experiments. To meet the
requirements of the numerous visitors to the International Exhibition, the
entire entertainments of the institution have been changed, and the Polytechnic cannot fail to be, as it has ever been, one of the greatest attractions
to foreigners. Mr. J. I. King delivers an instructive lecture on the Curiosities of Science, and amongst the other amusements are charming musical sities of Science, and amongst the other amusements are charming musical entertainments by the Brousil family; an optical extravaganza by Mr. Buckland, and a large series of entirely new dissolving views. 'The mechanical models, the whole of which are constantly at work, have been considerably increased, and the large geological section of the earth's crust continues to attract the attention of all connected with our mineral industries.

Utilisation of Blast-Furnace Gases.—An invention for improvements in treating gas produced by blast-furnaces in its passage from the blast-furnaces to other furnaces, or heating apparatus; has been provisionally specified by Mr. John Vaughan, of Middlesborough-on-Tees. The principal feature in the invention consists in the employment of a jet of steam in connection with a regular supply of water. He proposes that jets of steam shall be so situated as to increase the draft and accelerate the passage of the gas through tubes conveying it, thereby relieving the furnace to a considerable extent from forcing the gas into the purifier. When the gas comes under the action of the jets of steam, the coarser particles of the dast and other matter with which the gas is mechanically mixed are propelled under water; the gas also is forced under water partly, but immediately rises, and leaves all impurities behind. The water is to be kept constantly in circulation through a reservoir, which receives the deposit from the gas and carries it away. The water contained in this reservoir also condenses the steam from the jets and provents it from rising with the purified gas. In order considers it seems carries it away. The water contained in this reservoir also condenses the steam from the jets, and provents it from rising with the purified gas. In order completely to condense the steam from the jet or jets before the purified gas reaches its silimate destination, the gas is caused to pass through a stratum of coke, open brickwork, or other porous material, through which a stream of coal water in constantly kept running; this stream of water also supplies the reservoir, and if it is desired to purify the gas still further this stream may hold in solution lime, or other purifying materials. The stream is condensing carries off all the finer particles of dust from the gas, as well as other deleterious matter blown with it from the furnace.

New Motive-Power Engine,—Messrs. Dowell, of Rhyl, have provisionally specified an invention which consists of a wheel having an even number of spokes, each diametrically opposite to another. Weights carried by the said spokes are worked in such a manner that those on the falling side; one-half of the wheel is thus kept in a constant state of preponderance, and the said wheel constantly rotates. On each spoke there is a eliding weight, and a rod prolonged beyond the periphery of the wheel carries a second weight. On the spoke, somewhat further from the axis of the wheel than the inner weight, is a centre on which two crossing levers work, the shorter arms of the said levers being towards the inner weight, and connected therewith by a connecting rod, with a similar pair of crossing levers turning upon a centre on the spoke, and near the periphery of the wheel; and to the latter levers the rod carrying the outer weight is connected by connecting links. The action of the lovers described somewhat resembles that of the ordinary lagy tongs layers. The drawing upwards of the outer weight is thus effected by the liner weight changing positions with it, and hence the constant motion of the wheel is kept up.

INDURATING STONE.—Messrs. Coombe and Wright, of New Bridge-street, Blackfriars, have patented an invention which consists in asturating bricks, tiles, slabs, artificial stones and marbles, or such portion of them as are exposed to the action of the atmosphere, with hydro-flue-silicie acid and silicate of potash. The invention is alike applicable to limestones and sandstones. The claim is for using silicate of potash, in embination of hydro-flue-silicie acid or hydro-fluoric acid.

Mining Correspondence.

BRITISH MINES.

BRITISH MINES.

ABERDOVEY.—A. Ede: I expect a change very shortly in the main lode, north of engine-shaft, at the 47, as it is now running very regular, and underlying about 2 feet per fathom, the ground being composed of a soft clay-slate; the end is driving by six men with all speed. The stope south of sugine-shaft is producing about 24 ton per force, and all other places of operation are without change. We have a large quantity of ore broken, which we are dressing a quickly as possible, but are rather short of surface hands. ALPHED CONSOIS.—S. Thomas, 7. Hosting, May 14: In the 100, driving cast of bave shaft, the lode is worth 0. per far from the state of the local control is worth 10. per fathom. The 10 force of the control is worth 10. per fathom. In the 10 force of the control of the shaft of the local is worth 10. per fathom. In the 10 force of the control of the control is worth 10. per fathom. In the 10 force of the control of

from the 17 at the place pointing men to open upon the same tode about 200 fines, east in the cross-cut adit level. We have begun to make preparations for the drawing-machine, and also to finish waits for second crushing-mill house. The dressing proceeds very satisfactorily.

Bity NAMBOR.—E. Williams, May 13: The 20 east has been driven east of cross-cut 21 ft., and in a very promising lode, but I beg to inform you that it has not been looking so well for the last two days; however, I expect an improvement every day. The end with yield at present 15 cwts. of ore per fin. The stopes east and west of the whise are looking well still, and, in fact, improving every inch as we are going down. I buse are looking well still, and, in fact, improving every inch as we are going down. I buse are looking well still and the present of the winds are looking well at the 20 east has not yet reached the great body of ore; however, I expect that it will do so in a few days. As regards making a resevolr, after a careful examinator of the mine, at an outlay of 141, and then we shall have sufficient water all the littver ground, and saw emust do this sometime or other, the sooner will be the better to the length of the water-course will be about 165 perches. We are pushing on as fare as possible with the water-course will be about 165 perches. We are pushing on as fare as possible with the dressing, and the ore soid shall be sent of this week. We have our men driving the 20 east; six stoping east and west of winze; seven drawing stuff; two carpenters and smiths; three girls and two boys on the floors.

CAMBORNE CONSOLS.—William Roberts, May 14: In the 50, driving cast en the north lode, the tode is 2 ft. wide, composed of spar mundle, and gossan. In the other horsing in the ends of the producing stops of ore. In the 33 west, on the north lode, the lode is 2 ft. wide, composed of spar mundle, and gossan. In the other horsing have been considered to the sparse of t

Iriving north-west on the caunter lode, is without any change since has reported on the dressing operations are going on satisfactorily. No other alteration of importance hroughout the mint.

CENTRAL MINERA.—W. Davies, May 15: We have continued the driving of the great north cross since we intersected the vein, but have not yet reached the north side; the end is at present hard for driving. We have driven about 10 ft. through the vein, which is composed of chert, spar, and shale, and looks very promising for lead. There is no alteration in the 40 yard level, driving west from Pugh's shalt.

CLARA UNITED.—J. Lester, May 14: There is no alteration in the lode in the 20, ast of boundary shaft, or in stopes in back of the 32, since my last. We have put rods to the wheel to pump out water from Quarry shaft, and hope to have it in five in about nine days, when we shall set a cross-cut north to cut Quarry lode.

CROOKHAYEN.—W. Tonkin, May 10: The men have commenced to sink the engine-shaft under the 60, and have a great quantity of water in sinking, which is a good feature, and tells well for the lode near at hand; an abundance of water from a lode indicates an abundance of mineral. I have set to cut a plat in the north cross-cut at the 40, 8 feet by 4, and to sink I affine feet by 4, for 112, this is for the purpose of ventilation, which is much needed. I thought to have sunk on the gossan lode, but in cloudly a supplemental of the product of expensive to sink on.

CUDDRA.—F. Pickey, E. Danstan, May 15: In the 100 south, west of Tickell'sshaft,

clearing a place to sink I find the ground too expansive to sink on.

CUDDRA.—F. Puckey, E. Donstan, May 15: In the 100 south, west of Tickell'sshaft, we are still driving south, but have not yet reached the lode; the ground is spare for progress. In the winze sinking below the 50, west of Walker's shaft, the lode is still large, containing good work for tin. Walker's shaft is down to the 75, and we have commenced to drive east and west in killsa under the lode; we shall take down the lode in this level naxt week, when we shall be able to report its value.

CWMBRANE.—May 15: The ground in the 20, on the new lode, is more spare for driving, the lode being 1 ft. wide, and producing ½ ton of lead per fm. The 10 north, on Red lode, will produce about 1 ton of lead per fathom. We are getting on very weil with the new shaft, and shall complete it to the 10 this month. It is of great importance to get this shaft to the 30 as quickly as possible, so that we may be enabled to sink below on the course of the lode, where we may expect large returns of ore, looking at the amount of ground taken away from the backs.

DEVON AND CORNWALL.—T. Nelli, May 13: There is no alteration to notice since last report. The mine continues to open out well.

DEVON NEW COPPER.—P. Have, May 14: In the loth of the loth of the low of the loth of the low of the loth of the

smount of ground taken away from the backs.

DEVON AND CORNWALL.—T. Neill, May 13: There is no alteration to notice since last report. The mine continues to open out well.

DEVON NEW COPPER.—P. Hawke, May 14: In driving the end to the east of shaft at the SS, on the course of the leader, we have discovered underneath the kilias, on the face of the lode, a vugh or hollow crevice, in which a abovel and hill for the whole of its length may be forced; a large stream of water issues very rapidly from this point, which appears to drain to a great extent every other part of this level. I have forwarded a sample obtained from the leader part at this point. The leader going east is increasing in size, being already over 20 in, wide, comprising mundle and quartz, mixed with y cilow copper ore; it has a beautiful appearance. We have driven further into the mineralised course recently met with in the cross-cut to the west of shaft, at the SS, and I am almost inclined to think from the composition of the staff that it is a portion of the capits that have accompanied the lode, and now diverged from the latter; we shall, however, prosecute the cross-cut a little further, to solve the question. The sample of gosan forwarded is from a new lode discovered in making the wheel-pit; the lode is almost verifical, and promises on its getting settled to be a north noderle; if so, the junction cannot be any great depth below the present sink on the great north lode—a feature the most important in connection with this mining property. In a few days the underlie of the new lode may be taken, and the point of junction saccrtained.

DEAKE WALLS.—T. Gregory, May 15: The branches in the 102, east of Matthewa's shaft, are worth 104, per fin.; we have met with another bar of capel in this end, which is letting down an increase of water. The branches in the 90, west of Betteley's shaft, are groducing tin to the value of 104. per fin., with occasional stones of copper ore. In the 50, west of Betteley is shaft, are producing the tot the value of

EAGLEBROOK.—H. Tyack, May 8: We have now clean from 16 to 17 tons of lead ore. By the end of this week we shall finish stoping the orey ground in back of the 20, east and west of the winze; we have a quantity of orey stuff broken in this place, which we shall fare to surface and get dressed with all possible speed. I have nothing new to communicate to you as regards the cross-cut and the 20 west.

EAST CARN BREA.—T. Gianville, J. Scholar, May 14: In consequence of the accident to the engine, the only level we have to report on to-day to value is the 40, east of the cross-cut, which will produce 4 tons of ore per fm. We hope to have the water out for the men to work by Monday.

EAST DELABOLE SLATE AND SLAB.—N. Ennor, May 15: At your request I visited this quarry, where I found your men opening a quarry about 200 feet in length and 60 feet wide. I am bound to state that this piece of rock is opening out well, and even beyond my expectation; bunches of slate are found that would be marketable at a fair depth. If this piece of rock should bear out present appearances you will have a quarry that you can work to any extent, independent of your tidal quarry. Under these circumstances I should recommend carrying down the castern half 50 feet deeper. In conclusion, I have to remark that from present appearances you are likely to find a lasting quarry in this hill above sea level.

EAST DEVON GREAT CONSOLS.—T. Richards, May 13: We have not yet reached the lend tode in the 40; the ground continues favourable for progress and mineral.

quarry that you can work to any extent, independent of your tidal quarry. Under these circumstances I should recommend carrying down the eastern haif 50 feet deeper. In conclusion, I have to remark that from present appearances you are likely to find a lesting quarry in this hill advose sea level.

EAST DEVON GREAT CONSOLS.—T. Richards, May 18: We have not yet reached the state of the production of the progress and mineral.

EAST clusters of the ground continuous favourable for progress and mineral.

EAST clusters of the ground continuous favourable for progress and mineral.

EAST clusters of the ground continuous favourable for progress and mineral.

EAST clusters of the ground continuous favourable for progress and mineral.

EAST clusters of the ground continuous favourable for progress and mineral.

EAST clusters of the ground continuous favourable for the favourable for producing saving work, with every appearance of improvement. The lode in the 36 cast is worth a tons of ore per fam. No. 4 winze, in the bottom of this level, is worth 3 tons of ore per fam. The close in the continuous favourable for the favourable for the favourable for the favourable for the favourable favourable for the favourable favourabl

have finished cutting bearer holes, and put in the bearers, and now engaged in cutting yound for clearm and the pinisper-head; with regard to clearing the different levels, we are settling on very well. At the eastern engine-shaft we are now engaged cutting, we are settling on very well. At the castern engine-shaft we are now engaged cutting, we are settling on very well. At the load is without change to notice. In driving cast of said shaft the lode is a standard the content of th

HARWOOD,—J. Race, May 12: There is an improvement in the case

HARWOOD,—J. Race, May 12: There is an improvement in the cast call now worth 15 cwits. of lend ore per fathom, and seems likely to improve the now worth 15 cwits. Of lend ore per fathom, and seems likely to improve the sabout as last reported.

HAWKMOOR.—J. Richards, May 13: The lode in the 50 west is 1½ six promising character. In the 50 west the men have been set to drive west or for the lode met with in the cross-cut north. The stopes is back of are worth 1½ ton of copper ore per fathom, worth 61, per ton.—Well larsed in de in the 64 seems of the lode in the 5, west of Venner's winze, is small; it the men have been money and placed to drive west on No. 3 lode, which is of a profiling characte, and duced in places throughout the drivings small quantities of caving wark from hottom levels since report for the setting, except in the 160, west of stop, we for the lend olde, is worth fall 2 tons per fin. The winze sinking below in the 160, west of stop, we for the lend olde, is worth fall 2 tons per fin. The winze sinking below in the 160, west of stop, we for the lend olde, is worth fall 2 tons per fin. The stop west of this wins in 301, per fin. No. 2 winze, west of the lead lode, is not looking quite see a lask Lode: In the 40, cast of shaft, the lode is 4 fr. wide, composed of manic, copper ore, with good flookan upon the lode, and letting out more water which we consider a good indication. The 20, cast of shaft, is imprectly 2 tons per fin. We have suspended the 10 cast for the present, and put the 40 and 20; such end driving by six men. The tribute pliches are yielder titles of copper ore. Our pay, setting, &c., went off satisfactorily. KELLY RIGAY.—S. James, May 10: There is no alteration of importuning during the past week. There are only five pliches working in both mins—dwestern mine, and two in the castern. All the machinery is working will we are not in a position to say anything about the new winze. We comme tom of the 60, eastern mine; there is not any lode taken down yet. If any ment takes piace i

The ground in the new eastern shaft is much the same as for some time pat, has able for sinking.

LLYWEINOG.—M Barbery, May 14: The 40 ft. wheel was most adishenive, work on Monday, and is now going as easy as a glove, with a moderate sed was The embankment progresses well.

LOWER PARK.—W. Davies, May 15: The ground in Staart's shaft entime to for sinking. The 40 yard level, driving west from Stuart's shaft, is tark for sinking. The 40 yard level, driving west from Stuart's shaft, is tark for sinking. The 40 yard level, of store in back of the 40 yard level, east of Staart's shaft, is level useen suspended for the present, in consequence of cutting into a vaterous, which made it difficult to work them. We have removed the men to drive the light meant to reach that part worked from the 40; we have some goal stone of and in driving. The 30 yard level, driving east from the office-shaft, is specify for yand and looks every promaising for lead. The shaft of our winding-machine brain under which will prevent us drawing for a few days.

MAUDLIN.—J. Tregay, May 10: The lode in the 57, west and, is 2 fee with 5 cipally mundic, with spots of copper ore; with the present dry weather the was fallen back considerably for the wheel, and if it continues we shall experience that in Keeping the waster out of this level. In the 50 deast end the lote is principly sew with spots of copper ore. A winze has been set to sink in the bottom of this level. In the 50 deast end the lote is principly sew with spots of copper ore. A winze has been set to sink in the bottom of this level.

MELLLYN.—Wm. Sandoe. May 14: The end going north from the cross-class.

are desuing the lode in theore ground driven through last winter. No lode havels taken down.

MERILLINN.—Wm. Sandoe, May 14: The end going north from the remedian new lode, has been extended north about 4 fms., and the end going south has has been driven south about 3 fms., both these ends have produced generally spate ture of lend ore, and each are now yielding good dressing work for the value, dand looking very promising indeed. The new shart, going down on the 25mt, sha unk fail 16 fms., leaving about 4 fms. more to sink to get down to the lend with hope to do in a month from this time; the lode at present in the botten of head very kindly, and produces very good dressing work for lead ore.

MOLLAND.—T. Bennetts: The lode in the engine-shaft, sinking blow the layer of the look of the shaftmen then and letting out water freely; the ground is still stiff and close of sinking, have effort is being made to get down to a 62, and cut the north part of the low with all delay as possible. In the rise in the high back of the 32 eat the lock shore the referred to in my last is 1 ft. wide, poor at present, although producing a winter ore. In the 20 east we have commenced sinking a winter communicals with referred to above; and this, I hope, will be accomplished in two wests are with speed. The lode in the winze is split up in branches, in which we not without ore considenally.

referred to above: and this, I hope, will be accomplished in two weeks or swill a speed. The lode in the winze is split up in branches, in which we must with suspeed. The lode in the winze is split up in branches, in which we must with suspeed or cocasionally.

NANT-Y-IAGO,—J. Roach: In the 10 west we are driving a cross-cal such in the lode, which is composed of capel, a little quartz and lead ore, but we have say the sected the north wall and bearing part of it. The stopes in the back of this research was a sected to the control of the lode. The latter and quality as when last reported on.

NEW SOUTH CARADON.—R. Knapp, May 14: We have resumed claring the under the old shaft, and are making fair progress under the circumstance. In whilm-shaft recently commenced is sunk 3 fms. under the surface; we have heater quartz, and rich yellow copper ore, characteristic of the best lode in the disnet, I have also commenced another shaft for ventilation purposes, which will inquis sunk about 14 fms. to reach the adit. I have sat this work in the lump, to engine at 50s. per fm., and hope by the time its service is required to have it community was abaded to the communication.

NEW WHEAL VADDON.—P. Floyd, May 15: We have been obliged to such the sinking of Mildrams shaft for lack of air; we shall dispatch and fix them without delay, and at once recommence shaking the shaft is dispatch and fix them without delay, and at once recommence shaking the shaft, the lode is 2 ft. wide, producing good stones of copper and in orse. In the shaft, the lode is 2 ft. wide, producing good stones of copper and in orse. In the shaft, the lode is 2 ft. wide, producing good stones of copper and in orse. In the shaft, the lode is 2 ft. wide, worth 7.5 per fm. for the.

NORTH BULLER.—J. B. Delbridge, May 10: There is no particular change in shaft of the lode is 2 ft. wide, worth 7.5 per fm. for the.

NORTH LAXEY.—R. Week, worth 7.5 per fm. for the.

NORTH LAXEY.—R. Perme, May 12: The engine-shaft is now 8 fet his wish is opened on 6 ft.; it is 3

NORTH LAXEY.—R. Rowe, May 10: The engine-shaft is now 9 feet below NORTH LAXEY.—R. Rowe, May 10: The engine-shaft is now is in-the trip-plat is completely, and everything ready to allow the sinking log or further interruption. You may rely on everything being done to get the sid-a new level as fast as possible, and I am in good hopes we shall accomplish your satisfaction. The lode in bottom of the shaft is 2R, wide, chieff gossia-ing some good work for lead. The 3S is now driven 10 fms. south of new seit the lode in the end is about 3 ft. wide, and worth 1/2 four of ore per fathen; if the case that the main run of ore ground is dipping south in depth. The first 38, and the working of the stopes in bottom of the 2T, demonstrate this sid order of things at least. I, therefore, look for the most productive greatly

order of things at least. 1, increares, now to the sum of the last white my vet before the 38 end.

NORTH WHEAL ROBERT.—Wm. Godden, May 15: We have this my sected the No. 1 tin lode, in Rowe's cross-cut, at the 49 fm. level, west of the leading part of which is about 1 foot wide, producing good work for tin. Wide, producing good work for tin. The south part of the lode, in the 44 wide, producing good work for tin. The south part of the lode, in the 44 scoole's cross-cut, is improved, laying open good ore ground, both in the last com of the lawel.

taken down the lode in Bennett's winze, below the 30 m. leves, in the 42 ms, wide, producing good work for tin. The south part of the lode, in the 42 ms, wide, producing good work for tin. The south part of the lode, in the 42 ms, wide in the second part of the lode, in the 42 ms, wide in the confidence of the lower of the level.

NORTH WREY.—T. Kemp, May 15: We have taken out sufficient grade foundation of the engine-house, and I am daily expecting Mr. Gray, the enjoyed mine to give instructions for the measons to commence the walls. In comparison timber giving way in the back of the adit some staff came down had the some have put the men to clear it out, and to make it secure, which I hope will be out in a few days.

PAR CONGUE — Product T. Rich J. Hasking, May 6

n a few days.

PAR CONSOLS.—F. Puckey, T. Rich, J. Hosking, May 6 We have nothing out to the different is notice in this mine since our last monthly report. The ends in the different is otice in this mine since our last monthly report. The ends in as unactional time and copper, and are looking promising for father ingereducing both tim and copper, and are looking promising for father ingereducing about the usal riverse of the copper.

PEDN-AN-DREA UNITED.—W. Tregay, J. Thomas, May 10: The PEDN-AN-DREA UNITED.—W. Tregay, J. Thomas, May 10: The formal father in the log yielding about the contract of the contrac

PEDN-AN-DREA UNITED.—W. Tregay, J. Thomas, Assisting about sinking as fant as possible, without any hindrance, the lode yielding about for the breath carried, 6 ft.; no wall. The 100 cast is worth 15, per fm.

The 110 west is worth 36, per fm. The 110 cast is & Serit 46 for the breath carried, 6 ft.; no wall. The 100 cast is worth 15, per fm.

The 100 west, or Skimmer's lode, is worth 71, per fm. The 90 west is lode, is yelleding stones of tin. The 50 new rise is poor. The 50 was is per lode, is yelleding stones of tin. The 50 new rise is poor. The 50 was is per lode, is yelleding coarse distarting and good stones of copper ore. The 50 west there is a cross-course in the end, and we are driving through 1.5 feet and 1.5 feet

lown since last report.—Wheal Sparnon: The clearing of the seeded with vigorously.

PENDEEN CONSOLS.—J. Warren, May 10: I see no change to notice the seeded with vigorously.

All our operations are pushed on with all speed.

All our operations are pushed on with all speed.

oeeded with vigorously.

PENDERN CONSOLS.—J. Warren, May 10: I see no change to note past week. All our operations are pushed on with all speed. Weekle this representation of the lock of the 118, north of engine-shaft, next week, who is a lock of the 118, north of engine-shaft, next week, who is possible to some first provided the provided provided the provided provided the shaft, the lode is a feet wide, producing improved quality stamping work for its a shaft, the lode is a feet wide, with the same level west the lode is a feet wide, containing the same level west the lode is a feet wide, containing the same level west the lode is the same level west the lode is a feet wide, containing the same level west the lode is the same level with the stamps, which will be completed in the course of a week.

REDMOOR.—T. Taylor, May 13: We shall comment which will be completed in the course of a week.

The tribute pitches are as usual.

REDMOOR.—T. Taylor, May 13: We shall comment with the stamps with the

40 stopes and end on Johnson's lode this week. The 40 and north is similar the tribute pitches are as usual.

RHOSWYDOL AND BACHEIDDON.—E. Davies, May 10: The experimental state of the st

M

SILVER

MAY 17, 1862.

It come of sinking below the 15. The 70 east has an oray lode in the end driving. The wiss coming down from the 65 is also in a productive lode. The stops in back of the wiss coming down from the 65 is also in a productive lode. The stops in back of the wiss coming down from the 65 is also in a productive lode. The stops in back of the survey of the company of the wiss of the company of the

work I have just named is, I consider, of so much important to report this is no yother part of the mine.

grown you on the subject by return of post. I have no alteration to report this is no yother part of the mine.

ground the subject with the mine.

ground to you have been fixed, and other alterations roade in the pitwork, which have been been fixed, and other alterations roade in the pitwork, which have been been fixed, and other alterations roade in the pitwork, which have been delivered in the pitwork, which have been delivered in the production of copper.

ground in the production of copper.

IVER VEIN.—E. Burn, May 14: Bere's engine-shaft is down 4 fms. 1 ft.; the sis is little stiff for sinking, which has made our progress rather slow for the post it. The shaftmen are engaged timbering the shaft, to be prepared for the engineer, will take them a day or two. The masons are making great dispatch with baildings, and every other branch of work is going on satisfactorily.

MITTS WOOD.—W. Hosking, May 14: The water-course recently taken up from the Yalley, for bringing home an increased supply during the day season, is now combet yalley, for bringing home an increased supply during the day season, is now considered the supplemental of the past of the past water to wise. The entire of ataunching the leat in the passage of the water to expedite the fixing the same between the wheel and No. 2 shaft. The pitwork is necessed delivery, and no doubt will be in time for moving off with the flux is the system of single passage in the passage of the water to supplie the sixing the same between the wheel and No. 2 shaft. The pitwork is in course of delivery, and no doubt will be in time for moving off with the flux is the system of single passage in the passage of the water to supplie the fixer of a single passage of the water to wheel and No. 2 shaft. The pitwork is lever any for sinking—I have a very high opinion of this tode. The western on the system of the passage of the water to see a supplication to the wignoun

emp expect an improvement as we acquire depth in driving into the rising ground, she bearing and dressing the tinstuff is proceeding satisfactorily; we have several tons she forming and dressing the tinstuff; as proceeding satisfactorily; we have several tons she forming and dressing the tinstuff; as fact as our present means of dressing for market, and are adding to the quantity as fact as our present means of dressing formatics, and are adding to the quantity as fact as our present means of dressing for the process of the arth part of the main lode, the lode is 1½ ft. wide, pictiding stones of ore coeasianly. In Rower's rise, in the back of the 40, east of the owe's cross-cut, on the north art of the main lode, the lode is 1 foot wide, worth ½ ton of ore per fm. In Gilbert's account of the state of the 40, on the north part of the main lode, the lode is worth 2 tons of ore per fm. In Gilbert's collection and the state of the 40, on the north part of the main lode, the lode is worth 2 tons of ore per fm. In Gilbert's collection and the back of the 40, west of Girbbon's rise, on the south part of the main lode, the lode is worth 2 tons of ore per fm. In Gilbert's collection and the state of the

princi; in the same level west the lode is 1 foot wide, producing stones of good ore—tibules ground,

30UTH TOLGUS.—May 14: Youren's Lode: In Michell's engine-shaft, below the life, the lote is 2 feet wide, composed of spart, peach, and spots of ore. The lode in the life west is 2 feet wide, composed of peach, mundic, jack, and stones of ore, and letting out more water than usual. The lode in the 120 west yields 1½ ton of ore per fathorn. The lose in the winze, sinking in the bottom of the same, yields 2 tons per fm. The lose in the 110 west yields 3 tons of ore per fm., and the stope in the back of the same rate of the same rate. The lose in the 10 west yields 3 tons of ore per fm. The lode in the vinze, sinking in the bottom of the same yields 2 tons per fm. The lode in the vinze, sinking in the bottom tell 10, is 18 inches wide, producing good stones of ore; we hope to commissiate it to the 110 in a few days. In the 90 weat the lode is small and unproducing, the same will apply to the rise in the back of the 90 and the 78 in, level west.—The lode: In the 130 east the lode is 2 feet wide, composed of spart and stones of ore. The lose in the 130 east, and in the 110 cast, has not been taken down since last restem. The lode east is all the back over the 110, each yielding 2 tons of ore per statem. The lode east is all the back over the 110, each yielding 2 tons of ore listem. The lode east is all the back over the 110, each yielding 2 tons of ore listem. The lode east is all yielding 2 tons of ore listem. The lode east is all yielding 2 tons of ore listem. The lode east is all yielding 2 tons of ore listem. The lode east is all yielding 2 tons of ore listem.

y west is worth in the set is poor. In the set is not under the set is not under the set is being pro-

ground in the adit cross-cut south is hard.—King's Lode: The lode in King's shaft, sinking below the adit level, is 10 inches wide, compared of soft guest and black cross-

sinking below the adit level, is 10 inches wide, composed of soft spar and black ore—a kindly hode.

TRELOWETH.—T. Richards, May 15: In the 144 cross-cut, driving south, we have not cut the lode. The lode in the 134 end, west of Cole's engine-shaft, is worth 184, per fathom for copper ore. The 134 cross-cut, driving south through the lode, continues to be unpreductive. The winze sinking below the 134, west of Cole's, is worth 204, per fin. The 89 end continues to yield a little copper ore throughout the lode, and worth 21, per fathom. The pitches continues to yield about the usual quantity of copper ore.

TRENCROM.—R. Hollow, F. Bennetts, May 15: The men at Glesier's engine-shaft, are engaged fixing pitwork at the 80. The lode in the 100, east of the engine-shaft, is worth 54, per fathom. The lode in the 70, east of the engine-shaft, is worth 54, per fathom. The lode in the 70, east of the engine-shaft, is worth 24. 10s, per fathom. Hollow's shaft is communicated from the 40 to a back in the 60, in cutting it down to make the shaft its star; the east end of ground is worth 71, per fathom. The flat-ord shaft is sure, the end of ground is worth 71, per fathom. The flat-ord shaft is sure, the new lode, is worth 34. 10s, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom. The rise in back of the 60, on the new lode, is worth 64, per fathom.

indown shall as communicated from the 40 to a back in the 60, in cutting it down to indown's abuse to sometime the rown that the back in the 60, in cutting it down to shall its sunk below the 30 fm. level 3 fathems; the 'dod is worth 160, per fathom. The first in back of the 60, on the new lock, sworth 46, per fathom. There is no change in the 100 cross-cut. The 60 east, on the new lock, sworth 46, per fathom. The rise in back of the 60, on the new lock, sworth 46, per fathom. The rise in back of the 60, on the new lock, sworth 46, per fathom. The rise in back of the 60, on the new lock, sworth 46, per fathom. The rise in back of the 60, on the new lock, is worth 46, per fathom. The rise in the 100 cross-cut. The 100 cross-cu

WHEAL ARTHUR.—T. Carpenter, May 15: We have commenced sinking a winze in bottom of the 50 fathom level, 10 east of boundary cross-course, on the middel lode, where the lode is worth from 8t. to 10t. per fm. We have to drive the adit level 8 fms. east to get under this winze, which will be 14 fms. deeper than the 50, and about 3 fms. from boundary. There is no change worthy of notice elsewhere. We shipped yesterday 21 tons of sulphur mundic, and are preparing a parcel of copper ore to sample the end of this month.

small the work in the different shafts. We have one pittons, six summen, one filter, and one lander at all the mitter emblyed at the engine-shaft; six men, one filter, and one lander at the shaft of the deep add; tevel next six set to set down this shaft to the deep add; tevel next six set of the shaft of the shaft

appearance, and producing some very good ore; set to six men, at 41. 15s, per fathom. The 50, east of the engine-shaft, on the same lode, is in the influence of the civan course, consequently the lode is disordered, and not so rich for copper; act to six men, at 61. 18s, per fm. The engine-shaft is now down? ft. below the 50, and the deeper we are going the better appearance the lode is showing, and we are glad to say we have broken some very fine stones of copper ore the past month. The cistern-plat is now cut, and we hope in about a week from this time to complete the fixing of the drawing-lift, after which the sinking of the shaft will be pushed on as fast as time will permit by nine men, at 25t, per fm. The lobby level, on Mary's lode, is now under the trial shaft; a rise will now be commenced to communicate with the shaft, and when holed we purpose sinking under this level for proving the lode in depth, which we are of opinion will be no critically any specialistics.

ary speculation.
WHEAL CUPID.—R. Pryor, sen.: No change worthy of notice has taken
his mine during the past week. We shall sample on Wednesday next about 1

mary speculation.

WHEAL CUPID.—R. Pryor, sen.; No change worthy of notice has taken place in this mine during the past week. We shall sample on Wednesday next about 16 tons of fair quality copper ore.

WHEAL EDWARD.—M. H. East, May 10: South Lode: In the 92 west the lode is 3½ ft. wide, yielding rich stones of ore—a kindly lode; driving by six men, at 12t, per fathom; this end is letting out 170 gailtons of water per minute, and we think the ground between the cross-course and the caunter is sufficiently drained to enable us to sink a winze below the 81, therefore we purpose to commence about it forthwith. The winze will be commenced slinking in a large croy lode, and is set to six men, at 10t, per fm. In the 81 west we are driving by the side of the lode by four men, at 82, per fm. We have a hope that this level weil shortly drain to the 71, when a few winze can be sunk below that level west of the caunter in a good lode of ore. The lode in Collins's stop, in back of the 71 west, is worth 2½ tons of ore per fm.; set to four men, at 61, 10a, per fm. In the 61 west the lode is about 1 ft. wide, por; set to four men, at 61, 10a, per fm. Goodman's rise, in the back of the 61 west, is up 5 fms., in which the lode is 5 ft. wide, and we are of opinion that when the 50 is brought up to the point where the rise is put that a communication can be made with the 50 by means of slinking at less cost than can be done by rising, therefore the rise is suspended, and the same men put to stope west of the said rise from the back of the 61, which is set at 31, per fm., and the lode is worth 4 tons of ore per fm. in the 60 west the lode is worth 1½ tons of ore per fm.; set to six men, at 71, per fm.—New South Lode: At the present; set to row men and two boys, at 41, per fm. In the 50 west the lode is worth 1½ tons of ore per fm.; set to six men, at 71, per fm.—New South Lode: At the properlicty of continuing these ends on this lode, and resume driving the cross-cut, when the lode is keen down I will write you again on this matte

drive at the 65 to intersect the new lode, which we hope will be accomplished by the time calculated upon. We purpose sampling our thin the stone on Wednesday next, when you shall be fully advised.

— G. R. Odgers, W. Bennetts, May 15: There is no alteration in any part of this mine calling for a remark since our advise of Saturday. We sampled yesterday 37 tons 4 cwts. of tinstuff, some of which is good work.

WHEAL GRYLLS,—May 15: Fisher's Lode: In the 30 end, cast of Annie's engine-shaff, the ground is a little harder for driving than it was. The lode is worth 20.0, per fathom. At the flat-rod shaft we have fixed bearers, and commenced cutting the elstern plat. At the 30, east of this shaft, the lode is 2½ ft. wide, worth 10.1, per fm. Grylin whim-shaft is down 7 fms. below the 10; the lode is worth 61, per fm.—Georgia Lode: Georgia shaft men are engaged fixing rods, preparatory to sinking the engine-shaft. In the a31 end, driving north, the lode is worth 201, per fm. In the two stopes in the back of this level there is no alteration; the lode in each stope is also worth 201, per fm. In the 33 end, driving north, the lode is worth 201, per fm. In the two stopes in the back of this level there is no alteration; the lode in each stope is also worth 201, per fm. In the 33 end, driving north, the lode is worth 201, per fm.; the stope in the back of this level there is no alteration; the lode in each stope is also worth 201, per fm. In the 33 end, driving north, the lode is worth 201, per fm. In the two stopes in the back of this level there is no alteration; the lode in the face is worth 202, per fm. In the back of this level there is no alteration; the producing some good stones of tin.

WHEAL HARKETT.—S. Williams, May 10: The ground in the engine-shaft is without change to notice. The lode in the fish of the producing some good stones of tin.

WHEAL HARKETT.—S. Williams, May 10: The ground in the engine-shaft is without change to notice. The lode in the fish of the producing some good leady worth 10, per fm.

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below the 20 on the south lode; the lode is worth 4f, per fathom. The 29 end west, on the south lode, is worth 5f, per fathom. The appearance of the present end would lead as to expect an improvement shortly. Our other ends and stopes are just as when last reported.

WHEAL NORRIS.—J. Nance, J. Andrews, May 10: At our setting to-day, the following bargains were let:—Carter's shaft to sink below the 15, to nine men, at 29f, per fm.; present depth 6 ims, 3f, t. 3 in, below the 15, and the ground much the same as it has been for some time past. The 15 to drive east of Carter's shaft, on No. 3 lode, let to four men, at 7f, per fm.; in the past week we have had a vory rich branch of thin it his end, about 2 in, wide, but in the present end the lode is 12 in, wide, and poor; it is probable that we shall have an improvement in this end as we approach under the ting round we had in this lode at the add level, and where the ancient miners wrought a sink below the said level, which is now filled with water, but we hope soon to drive it, in extending the 15 east towards the said point. The 15 cross-cut to drive north of Carter's shaft, to six men, at 71, per fm.; at this point the ground appears to be a little easier for driving. A rise in back of the 15, east of Carter's shaft, on No. 4 lode, to six men, at 70s, per fm. Our object is, as we have an accumulation of tinstuff in the stalls for the stamps, to put a rise up through to the add level or ventilation, and also to form the ground. The 15 cross-cut to drive south of Cremorne engine-shaft, to four men, at 10l, per fm.; at this point the ground continues hard and wet. We have now let the Cremorne engine-shaft to-day; it is now down 19 fms. 5 ft. below the 15; we purpose sinking 2½ feet deeper, and then case and divide the shaft, and bring the machine whim-kibbles to bottom to raise the starf.

WHEAL PROSPEE.—H. Stephens, May 15: In the 30, driving east on Porth-cue, there is a good branch of copper ore; the lode is from 8 to 10 in. wide, and improving as we progress t

on the middle lode, by six men, at 71, 10s, per fm. The 30 cross-cut to drive cast on the middle lode, by six men, at 71, 10s, per fm. The 30 cross-cut to drive cast on the south lode, by two men, at 91, per fm. The eastern shaft to sink below the 30, by mino men, at 22t, per fm.; lode worth 20t, per fm. The 18 drive east of the eastern shaft, by four men, at 41, per fm.; lode 3 f. wide, composed of gossan, intxed with a little copper ore. The winze to sink below the 18, by two men, at 91, per fm. The 20 cross-cut to drive south of the old engine-shaft, by two men, at 91, per fm. The 20 cross-cut to drive south of 17 he lods in the 30 west is looking more promising than for some time past; the two stopes in the back of this level are each yielding 3 tons per fm. We are still extending the two cross-cuts at the 40; there have not been any branches cut in either of them during the week. The engine-louse is up, and the masons are busily engaged in building the stack, and to-morrow they intend to commence building the boiler-house.

NEW WATER-WHEEL.—Mr. Julius Sturm, of Mannheim, has patented an invention, which consists in the substitution of the archimedian screw for the hydraulic wheels, and similar motors by means of which water-power is commonly applied to the production of mechanical action.

Another Cure of Asthma By Dr. Locock's Pulmonic Wafers.

-From Mr. W. Barton, Apothecaries Hall, Campelton:—"An old gentleman, who for years has been afflicted with asthma, and seldom had a quiet night's rest, since he began to use Dr. Locock's wafers feels himself quite well again. He sleeps well at night, and is quite refreshed in the morning." These wafers give instant relief and a rapid cure of asthma, consumption, coughs, and all disorders of the breath and lungs. They have a pleasant taste. Price is. 1½d. and 2s. 9d, per box. Sold by all druggists.

HOLLOWAY'S OINTMENT-DISEASES OF INFANCY.-Nothing is more HOLLOWAY'S OINTMENT—DISEASES OF INFANCY,—NOTHING IS MORE commendable than the early subjection of a series of maindies common to the nursery. Mesaies, diptherin, whooping cough, vaccination, and teething are relieved of their pain and danger by Holloway's ointment, appropriately applied, according to the paintly printed directions enveloping each pot. When properly rubbed upon the skin, this soothing ointment penetrates and acts most gehially on all disordered structures, without causing that alarm and irritation which the exhibition of internal medicine generally occasions, and which aggravate the already existing evils. No well-ordered nursery should be without this ointment, which will also be found most useful in curing the numerous skin diseases by which the best-tended infant is sometimes afflicted.

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WHEAL GRENVILLE.

The following report of this mine is by Captain James, the confidential agent of Messrs. Webb and Geach:—

The following report of this mine is by Captain James, the confidential agent of Messrs. Webb and Geach:—

Redruth, May 13.—I inspected this mine yesterday, and send you the following as my report:—The eagine-shaft is in course of sinking under the 110; the lode at present is standing to the south, therefore nothing can be said of its character. The 110 is extended west of shaft 31 fms.; for the first 24 fms. the lode was kindly, and produced a little 're in places, but the last 7 fathoms the lode has been from 18 in. to 2 ft. wide, and has produced from 2 to 2½ tons of ore per fm., and worth in money value from 103. to 200. per fm. and a very pretty lode in the present end worth full 201, per fm. This end, as you will see by sections, has not yet rached the canner, and no doubt a great improvement will take place at that point. A rise has been put up close to the present end, and they have only shoot 6 feet more to communicate to the 100. The lode in this rise is worth from 121. to 151, per fm., and will as soon as communicated open out a good piece of tribute ground, which will be taken away at about 5s. in 11. I should here state, before I close my remarks on this 110 fm. level, that the lode gone down in the bottom 1 of a plencid character, and looks well for the 120, which they calculate to open out 1 of a plencid character, and looks well for the 120, which they calculate to open out 1 of a plencid character, and looks well for the 120, which they calculate to open out 1 of a plencid character, and looks well for the 120, which they calculate to open out 1 of a plencid character, and looks well for the 120, which they calculate to open out 2 fms. have been on the oil in deep money of the continue of the first 29 fms. was supproductive; the next 10 fms. loce worth 101, per fm; and the remaining 16 fms., to the worth 103, per fm. They are also putting up a rise near this end, to communicate with the winze sinking under the 90, and at this point also a splendin plece of tribute ground will be opened out; the

MINING NOTABILIA

WHEAL LUDCOTT.—In confirmation of what has already appeared in the Journal, this mine continues to present prospects of the most encouraging character. Last week there were sold 3½ tons of rich sliver-lead ore, which realised 13404., or 3781, per ton, and there are ready for sale next week 20 tons, which it is estimated will realise 7004., or 354, per ton. During the following week there will be sold 50 tons more, the value of which is estimated at 20.7, per ton, and 1 ton which the agents compute will fetch something like 10004. The second instalment of 12261, has been paid for the purchase of Wheal Wrey, and the last instalment will be paid at the ensuing general mechanic grafter which, it is confidently expected, the payment of dividends will be resumed. The reserves have considerably increased.

to reserves have considerably increased.

At NORTH TRESKERBY, within the last few weeks, 2000L worth of copies also about 2000L worth has been discovered in the 57, east of Tressidder's shaft; also about 2000l. wor eighbourhood of Tressidder's shaft; and more than 1000l. worth in the 47 en y shaft, and other parts of the mine; the greater part is in very easy groun leave large profits.

ne manufactured by Messrs. Nicholls, Williams, and Co.

and will leave large profits.

The new engine manufactured by Messrs. Nicholls, Williams, and Co., was put to work at East Falmourn, in presence of the directors: the engine worked of well. The prospects of the inline are excellent.

NORTH ROBERT, as predicted, will turn out well. The last report is highly encouraging; the thiodes are looking well, and, nodoubt, if stamps were creted they could be worked profitably. The next sampling of copper will also be a good one.

SOUTH DARREN.—Several of the levels in this mine are looking much better. A box of very fine specimens of the silver-lead ore has been received at the office. Considerable improvements are looked for daily in the 60 cast, 30 west, and 80 fm. level, east and west. Some fine specimens of silver-lead ore from this mine are at the Exhibition.

level, east and west. Some fine specimens of silver-lead ore from this mine are at the Exhibition.

NORTH TRELAWNY.—The ground in the 76 is eased, and a quantity of water is coming from the cross-cut at this level. The great and sudden improvement in Ludcott, immediately adjoining North Trelawny boundary edge, causes great anticipations, as there are only 9 ft. to drive to cut the Ludcott lode, which runs into this sett. The silver in Ludcott continues, and dips into North Trelawny levels.

CARDIGAN CONSOLS.—Some very fine specimens of lead and copper ores from this mine are to be seen at the Exhibition.

GOLD IN WALES.—It is stated that Mr. John H. Clement, whose long and successful experience in connection with gold mining in various parts of the world entities his opinion to the utmost respect, has just started for Wales, to inspect some mining properties in the gold-bearing strats of the Clogan Mountain. The prospectus of the Cwmhedian property will be issued to the public in about a week, and several others are in course of formation. Amongst them in the West Clogan, which I believe is one of those to be inspected by Mr. Clement. This is rather a bold step on the part of the promoters, the mine, although in the Lower Blutrian formation, being west of the Vigra Mountain—a district in which he publicly declared, after his examinations of the surface in 1845, 1846, and 1837, contained nothing beyond traces of gold. Pits are now down, so that he will be enabled to observe the probable change that will take place in depth, and it is upon that that the promoters rely. Of course, should Mr. Clement's report be favourable, it will have the greater weight. The East Clogan directors have quarrelled with Mr. O. F. Gobie, and another manager has been engaged in his stead. The desire to embark in gold mining speculations is represented as very great at present—so great, indeed, that an effort is about to be made to bring out a Washoe Gold and Silver Mining Company, so that we may have quite a revival of the California

Silver Mining Company, so that we may have quite a revival of the California gold mania ore long.

PROSEER UNITED MINES—" We went on to Prosper, and this is really a magnificent mine, and does the greatest credit to Capt. T. Richards. I am astoniahed to see what has been done there since you commenced, and I am glod to see the prospects so good. There is fine black ore going down in the winze shead of the 40, and it is now turning to yellow. There is an immense quantity of tinstuff ready for stamping, and there will be good and regular samplings henceforth. I am much pleased with the mine, and hope it will soon pay."

CARDIGAN CONSOLS.—As stated last week, the prospects of this mine are excellent. The saidt east is worth 35l, per fm., and the stopes in the back 25l, per fathom. Sinking to another level is commenced.

BROOKWOOD.—I saw in last week's Journal a paragraph relating to the mines of the Ashburton district. The writer seems to be well acquainted with the mines therein named, and I quite agree with him as to their improved prospects, now that the generality of them are being managed in an efficient and miner-like manner. The failure of the Queen of the Dart, and two or three other mines that may be named, was owing to their mismansacement. The Brookwood and Wheal Emma Mines appear to be at present tooroughly well managed; it is to be regretted that the latter mine was not always so. As to the former, the operations carried on in the mine are being prosecuted with the utmost vigour, and promise, ere long, to give splendid results in the shape of dividends to the shareholders. The sale of ore to-day I find is 50 tons, of farst quality. There is a meeting of Wheal Emma to be held on the mine on Tuesday next. No doubt the shareholders will be highly pleased with the limproved prospects of their property.

NORTH TRELAWNY .- This mine is attracting considerable attention in the neighbourhood, and is considered likely, ere long, to rival that of its rich and favous neighbours. Wheal Ludcott, seeing it has a such a long run on the same lodes, which is turned out so productive in this mine. They are daily expecting to reach the lode the 76, and, according to the official report from the mine last week, little doubt is tertained that it will prove highly remunerative, and amply repay the shareholders their persevering patience and outlay.

A new mine appears in the Journal this day—East Wheal Fortune, in 4036 shares, on the Coat-book principle. This mine is adjoining some of the finest mines Cornwall has ever seen, is intersected by the West Cornwall Railway, and very near the railway station at Marazion; it is held of Mr. Rogers, M.P. for Helston, at 1-18th dues, without rent. It is a very large sett, and there are already four lodes intersected by a shallow adit, all of which are producing good work fortin. As good wine needs no bush, so this apparently needs neither puffing nor concealment.

Gurlyn continues to improve, and from present appearances bids fair to be in a very short time an extensive and valuable property. The extension of the 20 end east in Wheal Fox is draining the old workings below the add in East Wheal Fox, a partial the set; that was partially expended by the control of th end east in Wheal Fox is draining the old workings below the adit in East Wheal Fox, a part of the soft that was partially worked about 80 years ago as a separate mine. Tributers are now working there, and they have discovered the lode left entire by the former workers for more than 200 fathoms in length, all good tin ground, and from which large quantities of tin can at once be raised. This long and apparently valuable run of tin ground will soon be opened out by the 10, 20, and 30 fm. levels east from the flat-rop shaft, and it may be regarded as a most important discovery. The cross-cut south from Wheal Fox will soon intersect Riche's lode, east of the cross-course, from which great things are confidently expected. This (Riche's) lode has been very productive in the western part of the mine, and having never been seen east of the cross-course, its intersection will be an interesting and important feature. It also crosses Wheal Fox lode some few fathoms east of the present 20 end. The mine is at present one of the most promising in the district, and daily improving.

New East Willeys, Rosse, This property, signated near Nawguny, in

crosses Wheal Fox iode some few fathoms east of the present 20 end. The mine is at present one of the most promising in the district, and daily improving a present one of the most promising in the idstrict, and daily improving the present of the most promising in the perish of St. Colomb, Coruwall, on the estate of Sir R. Yyvynn, is about to be reworked by a cost-book company. Some years since the mine was partially developed by a London company, by whom operations were commenced on the north part of the sett in a valley, where they drove south about \$50 ms, on the course of the north and south lode, which it appears produced several tons of fine lead ore, and presented appearances of a most promising character. Capt. John Jankins (of Grent Wheal Baddern), speaking of the property, says that there are five east an iwest lodes travening the sett, in a very beautiful stratum of mineralized ground, being of a light bine decomposed killas, which is altogether congenial for silver-lead. There is also a north and south lode of a similar character, which will intersect the east and west lodes at a short distance east of the railroad. Capt. James Phillips (St. Columb) considers that the north part of the sett-which, as tefore stated, was partially developed some time since by a London company—to be a very great feature, his opinion being that at a shallow depth good profits will be returned. Belative to the future development of the property, he states that it presents facilities of a very unuans character, for the whole of the lodes, some seven or eight in number, in soft ground, are close to each other; the railway passes through the property, and being but two miles from a scaport the land carriage will be very trifling. He adds, that it is in the best locality or lead in the county, close to the celebrated East Wheal Rose, the richest lead mine in the county, and that the character of ground and lode exactly resembles each other. The present company propose to sink a shaft for about 15 or 20 fms, near the junction

With this week's Journal we give a SUPPLEMENTAL SHEET, which contains—Mr. Phillips's paper "On Gold Mining, and the Gold Discoveries made since 1851," as read at the Society of Arts, with the Discussion thereon; the Beariz Tin Mining District; the Mining News from Australasia; Copper Mining on Lake Superior; the paper "On Winding," read at the Miners' Association of Cornwall and Devon, by Mr. J. Hocking, jun.; the Discovery of London Fires; Colliery Explosions; Steam-engine and Boiler; a New Steam Travelling Crane. &c. Crane, &c.

velling Crane, &c.

We shall also publish a Supplement with next week's Journal, which will enable us to give more details of the Metallurgy and Mineral Products at the International Exhibition than we have now space for; also to insert several papers now unavoidably omitted—among them Mr. Patterson's paper "On Coal, Geologically, Chemically, and Commercially Considered;" Mr. Rogers's paper "On Iron-making—Economy in Puddling—Utilisation of Waste Substances;" the Social Condition of Miners; the Improvement of Canal Navigation; on the Distillation of Coal. &c. Distillation of Coal, &c.

With the Journal of May 3 a Supplemental Sheet was given, which contains—Prof. Morris on the Principles of Geology—the Geology of the Border: two papers, by Messrs. E. F. Boyd and E. Gibsone, read at the North of England Institute of Mining Engineers—On Winding: by Mr. J. Hocking, jun., read at the Miners' Association of Cornwall and Devon—the North Staffordshire Coal Field: by Mr. John Bradbury, read at the Manchester Geological Society—the Geological Formation of the Earth: by Mr. N. Eunor, with engravings—Plan of the North Peach Mining District. With the Journal of May 3 a SUPPLEMENTAL SHEET was given, which the North Pool Mining District.

The Mining Market; Prices of Metals, Gres, &c.

ME	TAL MARKET-London, May 16, 1862.
00PPER. £ s. d.	Name of the
lest selectedp. ton 101 0 0	Sheets
ough cake 98 0 0-	
	Wire 914d934d.
D	Tubes 11d12%d.
	POREIGN STEEL. Per Ton,
Copiapo	Swedish, in kegs (rolled)
lopper wirep. lb. 0 1 01/6	(hammered), 15 10 0-16 0
ditto tubes " 0 1 1	Ditto, in faggots 17 10 0-18 0
heathing & bolts , 0 0 11	English, Spring 18 0 0-23 0
lottoms , 0 1114-0 1 0	Bessemer's, Engineers Tool 44 0 0-
old (Exchange) , 0 0 91/2	
IRON. Per Ton.	
Sars, Welsh, in London 6 5 0	QUICKSILVER 7 0 0 p. bot
Ditto, to arrive 5 17 6- 6 0 0	SPELTER. Per Ton.
Vail rods 7 0 0	Foreign
" Stafford. in London 7 0 0- 7 10 0	To arrive 18 0 0
Sars ditto 7 5 0- 8 0 0	
Hoops ditto 8 5 0- 8 10 0	ZING.
Sheets, single 9 0 0- 9 10 0	In sheets 24 0 0
ig, No. 1, in Wales 8 0 0-4 0 0	TIN.
Refined metal, ditto 4 0 0- 5 0 0	English, blocks114 0 0
Bars, common,ditto #5 2 6	Ditto, Bars (in barrels) 115 0 0
Ditto, merchant, in Tees 6 10 0	Ditto, Refined
Ditto, railway, in Wales 5 5 0	Banca
Ditto, Swed. in London. 11 10 0-12 0 0	Straits
To arrive 11 0 0	
Pig. No. 1, in Clyde 2 8 0- 2 18 0	TIN-PLATES.*
Ditto, f.o. b. in Tees	IC Charcoal, 1st qua. p. bx. 1 7 6-1 8
Ditto, forge, f.o.b. in Tees	IX Ditto 1st quality , 1 13 6- 1 14
Staffordshire Forge Pig. 3 10 0- 3 12 6	IC Ditto 2d quality ,, 1 4 0- 1 6
Welsh Forge Pig	IX Ditto 2d quality ,, 1 10 0- 1 12
	IC Coke
LEAD.	The proposition in a comment
English Pig 20 5 0-21 10 0	Canada platesp. ton 12 10 0-13 0
Ditto sheet 90 10 0-90 15 0	In London : 20s less at the works

* At the works, 1s. to 1s. 6d. per box less

REMARKS.—The dulness prevailing last week continued during the arlier part of the present, and but few transactions of importance had

taken place up to the last day or two, when considerable activity was manifested, chiefly in copper, in consequence of some of the orders limited to 10\frac{1}{4}\cdot\text{...} which have been in the market for some time, being taken by the smelters. In one or two other branches also the metal market wears a more animated appearance.

COPPER.—No alteration in fixed rates of English has followed the decline on March 3, since which the market has never been equal to quotations; sales were made almost immediately after the fall at 10\frac{1}{4}\text{...}, the market then stiffened to 10\frac{1}{4}\text{...}, at which point most of the business of the month has been done. This price has been so steadily maintained that several Indian orders, limited to 10\frac{1}{4}\text{...}, could not be placed until the last day or two, when sellers submitted to the concession, and contracts were passed at this figure for a large quantity. The price has now become a general one, and is pretty freely quoted. For cake, tile, and ingot there is but little enquiry. Foreign continues slow of sale, and, though quotations are about the same, business has been done at lower rates. Burra sold at 942 10s. Kspunds, 96\delta. Chili, 86\delta.; Spanish, 88\delta In general one, and is preusy recess quarters slow of sale, and, though quotations are about the same, business has been done at lower rates. Burra Burra sold at 94. 10s.; Kapunda, 96., Chili, 86.; Spanish, 88. In yellow metal several orders have been placed at 8d., and even small lots

yellow metal several orders have been piaced at Su., and even sman aussare said to be obtainable at this price.

IRON.—Railway bars are in fair demand, and manufacturers tolerably well supplied with orders; price rules about 5£. 5s., delivered on board ship in Wales. Merchant bars in rather more request; quotations firm, at 5£. 2s. 6d. at works, and 5£. 17s. 6d. to 6£. f.o.b. in London. In Staffordshire descriptions only best qualities are enquired for; prices unaltered. Swedish bars are difficult to move at 11£ ex ship, and 11£. 10s. from the warshows, stocks moderate, and arrivals far from excessive. Good In. warehouse; stocks moderate, and arrivals far from excessive. Good Indian assortments are scarce. Scotch pigs have fluctuated but very slightly during the week, the highest point reached being 53s. 6d. mixed numbers. Market closes 53s., sellers.

Spelter.—No improvement whatever is visible in the demand for this netal; there are now sollers at a reduction of 5s. from our last week's ruotation-181., cash. This concession in price has not had the effect of

quotation—18*l.*, cash. This concession in price has not had the effect of bringing buyers into the market.

LEAD.—A good business doing in English pig, which has further advanced 10s. per ton, present quotations being 20*l.* 5s. for odinary soft quality, and 21*l.* 10s. for WB. The improved reports from China, by the last mail, have tended to stiffen our maket. Sheets and shot in limited demand, but quoted higher, in consequence of the advance in pig. Spanish pig is now quoted 20*l.*, and scarce.

TIN.—In English there is a decided increase in the demand, and sellers now adhere firmly to fixed rates. There is also more enquiry for foreign. Fine Straits advanced to 114*l.*, cash, a good business doing; Banca nominally quoted 123*l.*

minally quoted 123t.

Tin-Plates are easier to buy; IC coke, 21s. Excepting for shipment to America there is but little demand. Steel.—No important change has taken place in Swedish keg or fag

got, which remain dull.

New York, April 24.—Since March 25 Government has paid out large amounts of Treasury Notes and Certificates of Indebtedness, and money is very easy, without material fluctuations in the foreign exchanges and gold. The latter is quoted at 1\(\frac{5}{2}\) per cent, premium, and London 112 to 112\(\frac{1}{2}\) per cent. Business has not been so much benefitted by the disbursements of Government as had been anticipated, but with the opening of the Western trade there is a little more doing. It is not yet decided what changes will be made in the tariff, nor has the tax bill been finally passed. This uncertainty, and the position of the armies in the South-West and Virgids, naturally create an indisposition to operate largely, either in buying or selling.—Tin has improved a little, under a steady demand for consumption: the sales of the last few days are 600 to 800 slabs Straits at 20c. to 29\(\frac{1}{2}\) c., and 400 to 500 slabs Banca at 31c. We quote Straits, 29\(\frac{1}{2}\) c. Banca, 30\(\frac{1}{2}\) on ligots English. From the East indies, 1400 slabs are on the way. We estimate to-day's stocks at 9600 slabs Banca, 24,500 slabs Straits = 34,100 slabs in Boston and New York, and about 80 tons English. The bulk of the stocks consists of the importations of the early part of 1861, and is not offered for sale. After having waited so long, the owners are still disposed to hold until the question of the duty is settled. Before this is done, it is impossible to judge of the future value of the article. The stock is large, and may still be increased by additional shipments from England, where prices had declined.—Spetter had declined to 5\(\frac{1}{2}\), for the stilled a little: the business done has been of a retail character. We quote Stiesian, but has ralide a little: the business done has been of a retail character. We quote Stiesian but has ralide a little: the business done has been of a retail character. We quote Stiesian but has ralide a little: the business done has been of a retail character. We quote St

cient to maintain at least present quotations. The supply for 1822 is estimated at 13,000,000 lbs., of which 10,000,000 lbs. are likely at Baltimore smelters do not work to their full capacity. The duty of importations from Chill, and the shipments on the way are estimated —Lead: With large arrivals and free sellers from shipboard, the p clined to 6½c, and 6 3-16c, for common German, 6½c, for spanish, the clined to 6½c, and 6 3-16c, for common German, 6½c, for spanish, which is the common department of the control of the common the common common and the other kinds dull at 6½c. The white lead manufacturers have but the consumption for Government purposes is quite heavy, and we of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed those of the end of 2800 tons for the month our stocks do not exceed these of the end of 2800 tons for the month our stocks do not exceed these of the end of 2800 tons for the month our stocks do not exceed these of the end of 2800 tons for the month our stocks do not exceed these of the end of 2800 tons for the month our stocks do not exceed these of the end of 2800 tons for the month our stocks do not exceed the end of 2800 tons for the end of

The business transacted in the MINING SHARE MARKET during the week has been almost unprecedented in amount, and an extra has taken place in a few of the favourite mines ; the demand on the of bona fide investors being such as to beat all market operations settlement of the fortnightly account, almost the heaviest ever horn, lace on Thursday, and went off well. The chief demand has been place on Thursday, and went off well. The chief demand has been East Caradon, East Carn Brea, Wheal Grenville, East Wheal Grenk Devon Consols, Central Minera, Merllyn, North Treskerby, Whallis North Trelawny, North Roskear, West Rose Down, Tiacrof, Sny In North Basset, East Grylls, North Downs, Gonamena, Mary Am, What Uny, Carn Camborne, Wheal Unity, East Basset, and severaloderial East Caradon shares have reached 47, and leave off 45 to 46; its ta has been equal to 24,000% in the week, and there is little doubt the saw will reach 50% when the lode is met with in the 70 fm level adials ference to this point, we may observe that the ground in the crosses; exactly similar to that driven through in the 50 and 60 fm level bis the productive lode was met with, which angurs well for the 70 fm latest report of the agent values the 50 cast at 40% per fm.; the first the new lode, in the 50 cast, saving work; the 60 cas, we the productive lode was met with, which angurs well for the 70. In latest report of the agent values the 50 east at 40% per fm.; the 00 east, saving work; the 60 east, and 160% per fm.; the new lode, in the 50 east, saving work; the 60 east, and the 60 west, 20%; Fawcett's lode is unproductive. East Carn Braden have reached 16½, and leave off 16½ to 16½; the latest report satis in consequence of the accident to the engine, the only level to report in the 40, east of the cross-course, which will produce 4 tons of one per The agent hopes to have the water out of the mine by Monday. Car South Tolgus, 5½ to 5½; the lode at Lyle's shaft is worth from 40%, 50%. Per fm.; in the 140 east from 70% to 80%. West Basset, 11½ big the 114, west of Percy's shaft, is 2 feet wide, worth 1½ ton per in.; in 104, cast of Grenville's, 4 tons per fm. Wheal Grenville shares have dealt in to a very large amount, up to 6½, 6½, and leave off 5½ soft, our article, on May 3, we called special attention to the excellent proper of this mine, and there may be a considerable further rise next well, it continues to progress as at present. During the past week the mine been inspected for members of the Stock Exchange (who have been by ing largely), and the report more than bears out all that we have energy ressed, and states that in a few months the mine will be in a poisse puy dividends. On Thursday, 37 tons of tinstuff were sampled from the new, or East Grenville, lode. East Grenville shares have advanced in 1½ to 2½, 2½, and in great demand. Wheal Union shares in demand. 3 to 3½. Wheal Basset, 94 to 96.

Wheal Ludcott shares advanced to 8, 8½, but suddenly declined at and leave off 7½ to 7½; in another column will be found a letter fm 02 Knapp, which, while it complains of our remarks of last week, offm explanation of them, gives no detailed report of the mine, but estim a rambling, desultory statement, the general correctness of which may, haps, be estimated by the following extract:—"Two years and nimes.

expiration of them, gives no detailed report of the mine, but eited a rambling, desultory statement, the general correctness of which may, haps, be estimated by the following extract:—"Two years and nine may ago we commenced making profits, and paying dividends to the extention, with undeviating regularity at that rate to the present time." I shareholders will be rather surprised at this, for on reference to the counts we find that the mine commenced dividends in September, is each base power is even to see that the proper is a surprise of the counts we find that the mine commenced dividends in September, is tion, with undeviating regularity at that rate to the present time." In shareholders will be rather surprised at this, for on reference that counts we find that the mine commenced dividends in Septembr. 18 and has never, in any one quarter, paid more than 9601, and cased ping in October, 1861. But this, however, has nothing whatever ober our remarks of last week, though, in reference to a further question for Knapp's letter, "Have not the meetings been regularly held every quart and an abstract of the accounts, &c., sent with business regularly to shareholder?" We may answer distinctly, No! The usual quart meeting in 1861 was held on March 26. The regular period for this quarterly meeting in 1862 was also in March, but it was defined appril 15. And mark the result: at this meeting the costs were only day up to the end of January, but by deferring the meeting, sales of on the aggregate amount of 23361. 4s. 10d., and sold after the meeting thave been held—March 27, April 3 and 10, were credited, while help and March costs, at least 25001., remained a liability, though not gind the accounts! All we complained of, however, was that no official part had of late been furnished to the Journal, as a guide to the sharebols or to account for the great and sudden rise from 31. to 81, in the sun Capt. Knapp is still silent as to whether any discovery has been make yound the silver (of which little was said in the report to the meeting account for the rise, and one reason for asking the question wa, it been the common talk of the market for some time that in March last mine was inspected for a London shareholder, who, upon the report is given the discovery, sold out a large interest at 31. 2s. 6d. pr shan a since that time no official report to account for the great that per holes, and to the discovery, sold out a large interest at 31. 2s. 6d. pr shan with the sun and the common talk of the market for some time that in March last we made, and regret that they have not brought out a more saison from the common than the sun a

West Rose Down lodes. Sorthage Consolved the property of the p

On the Stock Exchange there has been very little lusiness in

per im.; the es have ben 61 to 61. In lent prospen xt week, if it the mine be

a position to pled from the dwanced from in demand, a

ter from Cast reck, offer a but enters in hich may, po-id nine mouth

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been made to the meeting) a ion was, it is March last to the report rise per share, as hange has been

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ore satisfactor o 13s.; Cliffor Basset, 42 to 46 6; Great Resi-t to 26‡. Nota on Tuesday, 5 621. 7s. 7d.; 3s.

talt, in which as in the brain is where is mis way. See its way. See even I sa to I sa

es is lies

ares daring the week. The following prices were officially recorded British Mining Shares:—East Caradon, 43\(\frac{1}{6}\), 44\(\frac{1}{6}\), 47\(\frac{1}{6}\), East Caradon, 43\(\frac{1}{6}\), 44\(\frac{1}{6}\), 47\(\frac{1}{6}\), East Caradon, 34\(\frac{1}{6}\), Fast Basset, 44\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 45\(\frac{1}{6}\), 46\(\frac{1}{6}\), 18\(\frac{1}{6}\), 3\(\frac{1}{6}\), 3\(\frac{1}

The closing quotations for shares in new undertakings were:—Ocean rise Insurance, 8½, 8½ prem.; Thames and Mersey Marine, 1½, 1½ pm.; ierrsal Marine, 2½, 2½ dis.; London and Provincial Marine, par to ½ in.; Mercantile Fire, ½, 1 prem.; Commercial Union, ½, ½ dis.; Imperial sk, ½ prem.; Alliance Bank, 2½, 2½ prem., ex the new shares; Chardbank of British Columbia and Vancouver's Island, par to ½ prem.; loningation, ½, ½ prem.; Metropolitan Wagon, 2, 2½ prem.; Loningation, ½, ½ prem.; Oriental Commercial Company, prem.; Bombay Gas, ½, ½ prem. Transactions were also reported in a Copper at ½, ½ prem., business done at ‡.

a Copper at \$\frac{1}{2}\$ prem., business done at \$\frac{1}{2}\$.

Insil Mine Share Market.—Business in these securities has been are slack since our last notice. The greater portion of the few transfers which have taken place was done in Mining Company of Ireland res, which remain in demand at last week's quotation, of 17L 2s. 6d to \$\frac{1}{2}\$. Wicklow Copper shares have further advanced, from 47L to 48L, are in request, showing that any observations on the excellent protes of the Wicklow Copper Mining Company are well founded. On other hand, the General Mining Company for Ireland shares have fallen at \$\frac{1}{2}\$ f. 6d. flat, to \$\frac{1}{2}\$. 10s., proving that after all a certain limited see of Dublin speculators in mines requires something more substantial in their own good reports on their mines to keep the shares at a price beyond their real value. Comnorree shares also gave way, and remain sale at 30s. 6d., and Carysfoot are weak at par (20s. paid). The Coal sing Company, Ireland (Limited), has issued its report for the half-resident of the company have been confined to the development of their colies at Walfhill and Killenaale; and that the produce of coal and culm the half-year has been 3079 tons at Walfhill, and 3268 tons at Kilsale, all sold, leaving a nett profit for the six months of 248L 3s. 31.; she the directors recommend to add to the reserve fund, which would a amount to 428L 14s. 5d. The Mining Interest of Ireland is greatly quieted by Mr. Adderley's proposition, in the House of Commons, to myorate the Museum for Irish Industry with the Royal Dublin Society, laterer the political or other motives may have been for the established of the British Museum and the Geological Museum and School of the former, it nevertheless remains a fact that the sphere of usees of these two institutions is as distinct, though not on the same scale that of the British Museum and the Geological Museum and School of remote mining in Ireland than the Dublin incorporated society can retend to accomplish; and the HI MINE SHARE MARKET.—Business in these securities has been

At the Swansea Ticketing, on Tuesday, 2831 tons of ore were sold, rea 1833,036.1 los. The particulars of the sale were—Average standard, 12a; average produce, 13 9-16; average price per ton, 11l. 13s. 6d.; mits of fine copper, 384 tons. The following are the particulars of the

aduring the past month:—

Standard. Produce. Price per ton. Ore cop.

Standard. Produce. Price per ton. Ore cop.

Standard. Produce. Price per ton. Ore cop.

11 ... 2015 ... 204 4 6 ... 1275 ... 211 4 0 ... 287 0 0

25 ... 2132 ... 102 2 0 ... 14 5-16. 12 7 6 ... 86 10 0

26 ... 2132 ... 102 2 0 ... 13 9-16 11 13 6 ... 86 1 0

10 spared with the last sale there has been a very slight decline. Compared hits corresponding sale of last month the decline has been—in the stand-like, and in the price per ton of ore about 38. Of the 2831 tons of ore or 12½, and sold at an average standard of 1044. 4s. 6d.—104. 8s. per of ore. The remaining 1603 tons were foreign ores, which gave an average produce of 14½, and sold at an average standard of 1014. 12s. —

13s. per ton of ore. On May 27 there will be offered for sale 2445 tons we from California, Cobre, Berehaven, Cuba, Springbok, Wheal Maria, ip, Bathurst, Knockmahon, Ballycummisk, Seville, Connorree, Tig-7, Yadanamutana, and elsewhere.

t the Devonshire Great Consolidated Copper Mining Company mee At the Devonshire Great Consolidated Copper Mining Company meetm Taureday (Mr. W. A. Thomas in the chair), the accounts for the year ending
mi were presented, showing a credit balance of 18,9031. 7s. 5d., after payment of
similaring the period amounting to 44,0321. (431, per share). The company had
3606, worth of Exchequer Bills in hand. The balance of assacts over liabilities was
Mills. 6d. During the year the company has received 3s. 6d. less for their ores
produce being the same), but segants this the cost of bringing the ore to market
him reduced to the extent of 3s. 11/4d. Capt. Ritchards presented an elaborate refrom which is appears that the reserves in the mines amount to 65,720 tons, worth,
jot ton, the average price of actual sales, 328,6001. The directors have estastated on the mines, which is attended by upwards of 60 children. Details
softer column.

For ton, the average price of actual sales, 228,5004. The directors have evalues as about on the mines, which is attended by upwards of 60 children. Details some column.

It has Minera Mining Company meeting, on April 29, the directors and dividend of 51, per share, from the profits of the Lady-day quarter.

I Cook's Kitchen Mine meeting, on May 9, the accounts for the four has miner by showed—Balance last audit, 541, 72, 44.; black the and copper ore as sankries, 5501, 73, 13,—65341, 143. II.—Mine coast, merchants' bills, and sunshine, 5501, 73, 13,—65341, 143. II.—Mine coast, merchants' bills, and sunshine, 5501, 73, 13,—65341, 154. III.—Mine coast, merchants' bills, and sunshine, 5501, 73, 13,—140 and sunshine, 73, 74,—150

the accounts showed a balance of assets over liabilities of 146!. Mesars. E. Cooke stig. director, and Mr. T. P. Thomas was appointed the North Phonix Mine meeting, on Tuesday, the accounts for tour same stig. director, and Mr. T. P. Thomas was appointed the North Phonix Mine meeting, on Tuesday, the accounts for tour same stig. March showed a credit balance of 1511, 13s. 9d. The cost for the next into the same state was similated at 550!. A call of 3s. per share was made. It is the Cym Brane meeting, on Wednesday (Sir J. Walmesley in the livers showed that Mesars. J. Walmisley, Joseph Bartram, J. R. Pike, and T. S. C. W. W. Thomas was appointed scretary. Mesars. D. Jones and Co. (of Liantite, Cym Walley, Minera M

C. W. T. Thomas was appointed accretary. Messrs. D. Jones and Co. (of Lianty Property of the North Minera Mine meeting, yesterday (Mr. T. P. Thomas in a strength of the North Minera Mine meeting, yesterday (Mr. T. P. Thomas in the North Minera Mine meeting, yesterday (Mr. T. P. Thomas in a large string been read, the Chairman said there was no doubt that the Red substance of the North Minera was complete, the buildings in white considerably increased and North Minera, in which case both those property of the North Minera was complete, the buildings of the North Minera, the North Minera was complete, the buildings of the North Minera was complete, the buildings of the North Minera was considerably increased and the North Minera was considerably increased and the North Minera was considerable to the North Minera was and as from the Since and the North Minera was competed the North Minera was and the North Minera was and the North Minera was and the North Minera was in the North Minera was the North Minera was in the North Minera was the North Minera was in North Minera was in North Minera was the North Minera wa

Walmsley were appointed directors for the ensuing year. In consequence of the heavy expenditure incurred in machinery, and the hereunto unremunerative character of the stratification, it was resolved that the Marquis of Westminster should be memorialised to sanction a reduction of the dues. A vote of thanks to the Chairman terminated the

stratingation, it was reast cases and a vote of thanks to the Chairman terminated the proceedings.

At Rosewarne United Mines meeting, on Monday, the accounts for the four months ending March showed—Balance last audit, 384. 11s.; mine cost, merchants' bills, and sundries, 2838. 11s. 48. d. = 2932. 2s. ds.—Copper ore sold, 1400.f. 8s. 6d.; tlustiff sold, 2134. ds. 11d.: leaving debit balance, 13184. 11s. A call of 24. 11s. 6d. per share was made. Capts. Richards, Woolcock, and Carthew reported upon the various points of operation. The breaking of copper ore was impeded by the accident to the St. Aubyn engine which occurred on Jan. 15 last.

At South Minera Lead Mining Company first annual general meeting, held at the Queen Hotel, Chester, on April 28 (Mr. Thomas Dixon in the chair), the balance-sheet (as already circuiated among the shareholders) was taken as read, and Mr. Taylor, the engineer of the company, read his report. A call of 10s. per share was made. Str E. S. Walker and Messrs. T. Dixon, E. C. Walker, W. Kestes, A. Eyton, and B. Hall, the several directors who retire under the provisions of the articles of association, were re-elected; and Mr. W. Sager was elected a director in the place of Mr. A. O. Walker, who is disqualified. Mr. John Bury was elected auditor of the company for the year ensuing, at a salary of 3t. 8s.

At East Rosewarne Mine meeting, on Thursday, the accounts showed a debit balance of 1021. 4s. 1d. A call of 1s. per share was made. Details elsewhere. At the St. Day United Mines meeting, on May 9 (Mr. J. Balster in the chair), the accounts, made up to the end of March, showed a debit balance of 12,007t. A call of 8s. per share was made. Details in another column.

At the English and Canadian Mining Company meeting, on May 8

e chair), the accounts, made up to the end of March, showed a depit palance of call of 8s, per share was made. Details in another column.

At the English and Canadian Mining Company meeting, on May 8

At the English and Canadian Mining Company meeting, on May 8 (Mr. A. Morrison in the chair), the accounts showed that the company were indebted to the amount of 66601. 16s. 4d., of which 30001 is a loan, bearing interest at 8 per cent. To meet these claims the company has its freshold estate in the colony and personal property (Including plant and stock at mines and cash in hand), 26951. 7s. 10d. Details will be found in another column.

At the Seend Iron Company meeting, on Thursday (Sir R. W. Carden in the chair), it was stated that the cost of production of the iron has exceeded the calculations, but this circumstance is at once accounted for by the fact that one furnace only has been worked, with a staff and expenditure in labour, &c., sufficient for two. The quantity of ore consumed being less than half its minimum quantity on which royalty is payable has more than doubled the charge on the iron made up to this time. The company are bound by a covenant in one of their leases to erect a third furnace by the end of June next, and an advantageous contract has been made for its erection. In the mouth of March last the superior landlord (Mr. Locke) of the lands from which the ore was raised brought an action of ejectment in consequence of the royalties not having been paid, and as the company were not under any liability to Mr. Locke they did not defend the action. Mr. Locke has, therefore, recovered possession of these lands. The directors are now in treaty with him for a new lease on more advantageous terms.

At the Beariz Tin Streaming Company (first general) meeting (Mr. J. Walker in the chair), a satisfactory report was presented by the directors, who state that in consequence of it being unnecessary to prosecute any heavy underground workings, or to provide the property with expensive machinery, it was confidently anticipated that no further calls would be required. The report of the directors, and the details of the meeting, appear in another column.

LEEDS, MAY 16.—Only a small amount of business has taken place in fining Shares during the past week, but prices have been very firm. The following hares have been dealt in—Brea Consols, Cornubia, Wensleydale, and North Halleneugle. At a meeting held, on Thursday, at the offices of the last-named company, it as annanimously resolved to increase the capital.—Edward Brook, 5, Bank-street,

LEEDS, MAY 16 .- In Mining Shares little animation has been exhi-: business continuing depressed, transactions are, consequently, limited in ch Quotations remain heavy and depressed —John Gledhill and Co.

Mr. Joseph Tregoning has been appointed by the Stannaries Court offi-al liquidator of the New Wheal Vor and East Wheal Metal Mining Company.

Mr. Myles Fenton, assistant traffic manager of the Lancashire and York the Company, and formerly secretary of the East Lancashire Company, has been ap ite Company, and formerly secretary of the East Lancashire Company, has been apointed manager of the Metropolitan Railway.

RISCA COAL AND IRON COMPANY.—The Master of the Rolls has made further call of 751, per share on the contributories of this unfortunate concern.

Coal Market.—On Monday, the arrival of 44 fresh ships, with the prospect of a large increase next day, caused a duil market for house coal, and first-class sorts submitted to a reduction of 6d, per ton; seconds remained stationary. Hartley's were in request, and prices 3d, per ton higher; manufacturers' without alteration. Best house coals, 15s. 6d, to 16s. 6d.; seconds, 13s. 6d, to 14s. 6d.; Hartley's, 14s. to 15s. 6d.; manufacturers', 11s. 6d. to 13s. 6d. per ton.—On Wednesday, the north-east wind sent the large number of 181 fresh ships up this morning, which produced a little heaviness in the market, but the factors did not press sales, and a fair amount of business was transacted, at Monday's prices, for all descriptions of coal.—On Friday, 41 arrivals. The tone of the market was dull, and the amount of business done trifling, at last prices for all kinds of coal. Hetton Wallsend, 16s. 6d.; South Hetton Wallsend, 16s. 6d.; Eden Main, 15s.; Bebside West Hartley, 15s. 6d.; Lambert's West Hartley, 15s.; Tanfield Moor, 12s. 6d. per ton: 47 cargoes unsold; 60 ships at sea.

The Metal Trade—(from a Correspondent).—If we may judge from statistics of the Banca Tin Stocks, the tin trade is in a less favourable position than it has been at the corresponding season for several years. The arrivals in Holland towards the next sale amount to fully 3500 slabs above those at the end of April last year, though last year the quantity was considerably above that of the two preceding years. At the present time, again, the stock in London is just twice as much as in 1861. There is now a moderate demand, but the question is whether it will compensate for the large stocks at disposal. In New York, according to the last advices, the prospects are not more assuring; and, indeed, with regard to the Metal Trade generally, the same remark will apply. The stocks of antimony continue large, but prices, in anticipation of a duty to be put on the metal, are stiffening. It is anticipated that the yield of copper from the Lake mines for the season will be 5000 tons.

The Otea Copper Mining Company (Limited).—The prospectus of this company has been issued during the week, and a copy of it will be found in our advertising columns of to-day. The mine is situate on the Great Barrier Island, New Zealand, and has already yielded 30,000%, worth of ore. Capt. Josiah Holman has recently inspected it, and gives a very favourable report. He estimates that there is still available above the adit level alone 4000 tons of copper ore of full 15 per cent. produce, which, even at present low prices, is worth nearly 50,000%. He considers that if the mine improves in depth, as it has done in the 12 fathom level under the adit, its future value would be very great. It will be seen that unusual importance must be attached to the opinions and statements of Capt. Holman, from the very high testimonial in his favour by Mr. Humphry Willyams, the eminent copper smelter, who has known Holman for a great many years, and has employed him on many occasions, and in all parts of the world. Capt. Rowe also estimates that there are thousands of tons of ore that may be returned profitably, and considers that but a slight improvement is required in the lode to make this an exceedingly valuable mining property. A most important feature is that there is no land carriage, which is generally a serious drawback to foreign and colonial mines, while the freight in the wool ships to London varies from only 2s. 6d. to 12s. 6d. per ton. Looking at the considerable quantity of ore ground laid open, the peculiar advantages of position, the richness of the ore, &c., we have rarely seen an undertaking of greater merit and attractions brought before the public. There are 25,000 shares of 2l. each, 5s. to be paid with application, and 5s. on allotment, and no further call to be made for at least 12 months. The direction is composed of gentlemen THE OTEA COPPER MINING COMPANY (LIMITED).—The prospectus of tractions brought before the public. There are 25,000 states to 2x each, 5s, to be paid with application, and 5s, on allotment, and no further call to be made for at least 12 months. The direction is composed of gentlemen of the highest respectability, and of acknowledged position. We may add that specimens of the ore may be seen in the New Zealand department of the International Exhibition.

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Railway, already surveyed by Mr. H. Voss, C.E., the resident engineer of the Grast
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found to be driven 5 chains into the hill, and is left in virgin coal of unasyral hardness
and excellent marketable quality; the seam is one block 4½ feet thick, with a few
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velon, the engineer states that not a stone of the ore has deflected or failen, neither is
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Should be sufficiently about the sufficient
one in thirty-six, or thereabout. With a companion or parallel level driven along the
northern boundary about 400 yards from the other; the whole of this valuable seam of
coal under Gilvach Mountain can be wrought and ventilated without the adventitions
aid of machinery or other auxiliary appliances; and as this seam is perfectly free from
and and J.
when and horses may walk in and out of the colliery fearless of danger. From
the unparalleled success attending this company's first essays at mining, and the highly
respectable and experienced gentlemen forming the directorate, there is little doubt but
that with ordinary management Gilvach will become one of the most remunerative

oncerns launched (under the Acts limiting the liability of shareho colis this year, and heartily we wish them the success they deserve

concerns launched (under the Acts limiting the liability of shareholders) in the metropolis this year, and heartily we wish them the success they deserve.

THE SURVIVORS OF THE LATE HARTLET CALAMITY.—The survivors of the calamity at Hartley have made out a claim which the Hartley Sinkers' Fund committee can, we think, hardly allow to go unheeded, particularly as they expect to have a balance in hand after presenting the testimonials to the sinkers and paying all necessary expenses. In a letter to a New-castle paper, the survivors say—"The Hartley men were the first who entered the shart and saved the lives of the three men who were got out alive. Those men were Thomas Watson (better known as the 'hero of the shaft'), Raiph Robisson, and William Sharp, who, no doubt, would have perished but for our exertions, as they were in such an exhausted state when we got them out; that was eighteen hours before Mr. Coulson and his men arrived. * * *. The Hartley men had got the shaft cleared of the debris, both at the High Main and up to the surface, and 24 fms. below the High Main, before Mr. Coulson and his men came. After they came the men were not allowed to go below the High Main seam any more, but we had to become their humble servants; but we never objected to go into the shaft, so anxions were we to save our fellow-beings who were suffering below; and the wages were received were 2s. 6d, per shift for labouring four, six, eight, and ten hours shifts, while Mr. Coulson's men received the same wages for two-hour shifts, and, bealdes their wages, were provided with provisions, which we were not; and, further, Mr. Coulson's men had their employment to return to, while we were out; and, further, Mr. Coulson's men had their employment to return to, while we were out; and, further, Mr. Coulson's men had their employment to return to, while we were not; and, further, Mr. Coulson's men had their employment to return to, while we were not; and, further, Mr. Coulson's men; but as it plainly appears it is not intended to give

SHOCKING COLLIERY ACCIDENT.—A most fearful accident occurred at Messrs. Love's Bitchburn Colliery, near Crook, Durham. It appears that the men had just got to work, when a large quantity of the upper seam of coal fell, burying three poor fellows. One of them saw the failing mass, and made a desperate effort to extricate himself, but, unfortunately, a large piece of earth struck him. The three men were killed.

WEATHER PREDICTIONS.

TO THE EDITOR OF THE MINING JOURNAL.

SIR,—In my last letter I stated the weather for the week would be unsettled and windy; the weather has been in accordance with this prediction. The cool May I predicted is now upon us. For the coming week, the early part, on the whole, will be fine, but rather changeable, the latter part rather unsettled. Several persons have written me as to the harvest we are to expect; as to the crops, they will be good, but the weather during the harvest months will be somewhat changeable.

26, Throgmorton-street, May 16.

G. SHEPHERD, C.E.,
Author of "The Climate of England."

LEAD ORES.

BLACK TIN Mines. Sold on the lat and 3d May.

Mines. Tons c. q. lbs. Price per ton. Amount.
asset & Grylis .. 22 5 2 27£1232 14 7—

Bold on the 10th May.

MAY 10.-WHEAL LUDCOTT adventurers sold Silven Ones to the value of 13411, 18e.

Gt. Wh. Vor 23 5 0 11 ... _ ... 1556 8 7 ... Penhalis ... 6 2 1 17 ... _ ... 1556 8 7 ... 888 11 3 -Calenick.

Kitty (St. Agnes). 8 14 3 18 518 3 5 ... ditto

Brea Consols 3 13 1 23 ... 69 7 6 ... 254 15 11 -R. Michell & Co. ditto

ditto 0 13 3 24 ... 60 10 0 ... 42 4 10 ... ditto

ditto 0 6 0 9 ... 41 0 0 ... 12 9 3 ... ditto

COPPER ORES. Sampled April 23, and sold at Swanses May 13.

ш	Mines. Tons.			rice.		Mines.	Tons.	Pr	oduce.	P	rice.	
	Cobre101				0	Cuba Ore	. 90 .	1	2	£10	0	0
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1	ditto 94	105/4	8	10	6	ditto	. 49 .	2	012	. 17	11	6
3	ditto 90	10%	8	16	0		. 48 .	2	012	. 17	9	0
	ditto 52				6	ditto	. 46 .	2	032	. 17	8	0
•	ditto 47			15	0	Precipitate						0
•	ditto 13			17	6	Gt. Northern						6
	ditto102				0	Mining Co. of						0
	ditto 92				0	South Aus						0
	ditto100				0	ditto	. 9 .	9	236	. 19	12	0
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Knockmahon... 526 ... 5552 12 0 | Ookip ... 26 ... 659
Berchaven ... 527 ... 4662 10 6 Liandudno ... 104 ... 100
Caba ... 518 ... 6460 18 0 | Mines Royal Reg. ... 41 ... 1700
Gt. Northern (S.A.) 163 ... 2368 2 0 | British Regulus ... 30 ... 750
COMPANIES BY WHOM THE ORES WERE PURCHASED.

Copper ores for sale at Swanses, May 27.—Californian U 73, 68, 65, 61, 60, 47, 43, 59 —Cobre 91, 90, 79, 75; 59, 50—Berehaven 104, 100, 118, 112 —Cuba 100, 98, 90, 47, 50, 32, 20, 8—Springbok 56, 46—Wheal Maris 77, 22—Ookip 53, 9—Bathurst 52, 39, 9, 5—Knockmahon 81—Ballycummist 30, 22, 18, 3—Seville 0re 25, 10, 8, 5—Connorree Precipitate 9—Cronebane 3, 2—Tigrony 3, 2—Glo'ster Siag 4—Siag 1—Yudanamutana 50, 8—Total, 9445 form.

AVERAGES.

Protec.

Standard.

British 12½ £10 8 0 £104 4 6

Foreign 1456 12 13 0 101 12 0 Sale 13 9-16.....£11 13 6£102 12 0
Totals—British, 1228; Foreign, 1603=2831 tons (21 cwts.) AVERAGES OF LAST SALE.
Produce. Price. Produce. Price. Standard.
British ... 10 15-16 ... \$9 7 0 ... \$105 9 6
Foreign ... 18 14 0 ... 99 7 0 Sale 14 5-16 £12 7 6 £10 Totals—British, 1251; Foreign, 881=2132 tons (21 cwts.) £102 2 0

COPPER ORES.

Copper ores for sale on Thursday next, at the Royal Hotel, Truro.—Mines as
—Devon Great Consols 1883—East Caradon 445—Phoenix Mine 388—Marke '
—Hingston Down 360—Great Wheai Martha 275—Holmbus 264—Lady Beb
Bedford United, 208—East Wheai Russell, 186—South Bedford 167—Wheal F
144—Yarner Mine 181—Wheal Emma 130—Kelly Bray 122—Gunnis Lake Ci
—Okel Tor 50—Brookwood 50—Gawton Copper 36—Furaden 34—Hawkmoor 3
5647 tons. - Mines and parcels. 8-Marke Valley 383

5667 tons.

Copper ores for sale on Thursday week, at the Royal Hotel, Truro.—Mines and Parcels.—West Caradon 606—Great Wheal Busy 534—South Caradon 448—Clifford Amaigamated 401—North Treskerby 339—Fowy Consols 306—Tywarnbaile 260—East Crimis and South Par 250—North Downs 233—Craddock Moor 176—St. Day United Mines 139—Wheal Polmear 106—South Crimis 97—Perran Mines 38—Burra Barra 36—Duchy and Peru 33—Wheal Rose 27—Wheal Jane 20—North Wheal Busy 19—Wheal Cupid 16—Falmouth and Sperries 13—Tredinnick's Ore 11.—Total, 4106 tons.

THE OTEA COPPER MINING COMPANY (LIMITED).

In 25,000 shares of £2 each.

5s. per share to be paid with application, and 5s. per share on allotment.

Under the Act of Parliament, each shareholder is liable only for the amount he has subscribed for.

DIRECTORS.

Col. BAZALGETTE, Chairman of the Great Barrier Land, Harbour, and Mining Company (Limited).

pany (Limited).
CHARLES MARTIN, Esq. (Messrs. Blogg and Martin), Bucklersbury.
PARKE PITTAR. Esq., (Messrs. P. Pittar and Co.), 26, Gresham-street.
JOSEPH THOMPSON, Esq., 43, Gloucester-terrace, Hyde-park.
PHLIP WRIGHT, Esq., late of Auckland, New Zealand.
Solictroras—Messrs. Blschoff, Coxe, and Bompas, 19, Coleman-street, E.C.
Consulting Mining Engisers—Messrs. Phillips and Darlington, Moorgate-street, E.C.
Bankers—Bank of London, Threadneedic-street, E.C.
Auddrors—To be appointed at the first general meeting.

Iondon Messrs. J. C. and C. W. Morice, 1, Warnford-court, E.C. Manchester J. Gorton, Esq., Newmarket Chambers.
Aberdeen H. C. Oswald, Esq., Marischall-street.

SECRETARY AND OFFICES. J. H. MURCHISON, Esq., 117, BISHOPSGATE STREET WITHIN.

J. H. MURCHISON, Esq., 117, BISHOPSGATE STREET WITHIN.

The object of this company is to purchase and work a copper mine, situate on the north of the Great Barrier Island, New Zealand, at present the property of the Great Barrier Land, Harbour, and Mining Company (Limited).

The operations hitherto carried on have been on a limited scale, and chiefly above the adit level; nevertheless, nearly £30,000 worth of copper ore has been sold from the mine. To supply the necessary machinery, and to open out the mine property, so as to yield remunerative results, demands more capital than the Great Barrier Company is in a position to lay out, that company requiring its resources for the development and improvement of its large estate.

At the office can be seen the reports and letters of experienced practical authorities, three of whom have recently carefully inspected the mine. Capt. Holman estimates (in his report of 21st March, 1861) that there are probably "over 3000 tons of ore, fully Is per cent. for copper, available" above the adit level. In his letters of 28th May and 77th November, 1861, he increases his estimate of the probable yield of this ore ground to 4000 tons, if the powerful crusher he recommends be erected.

The lode has been sunk upon for 20 fms. under the adit, and Capt. Holman says that "If only a permanent increase in the yield of ores takes place throughout the vein—such as seen in the 12 fm. level, where the quality of the ores is quite equal to the general shipments—the future value of the mine would be very great."

Capt. Holman also remarks that, in working the 'mine, "the materials required will be few in number; steel for borers, with powder and fuze, include the chief items for quarrying. On the dressing-floors, steel hammers and sledges, with ridding and jigging sleves. For the crusher, the usual wearing parts; whilst for the engine wood is abundant and easily procured."

The value to be attached to Captain Holman's statements and opinions can be inferred from the very high testimonial in

from the different reports, and especially from the one published in the Mining Journal of 20th July (Capt. Rowe's report), I think this mine holds out more than the ordinary chances of success."

The mine being close to the sca, the ore is at once put from the dressing-floors into barges, which take it alongside the ships, consequently there is no land carriage, generally a very heavy item in the costs of foreign and colonial mines; while the freight home (in the wool ships) has varied from only 2s. 6d. to 12s. 6d. per ton, making the mine in these respects like one at home, with the additional great advantage that the quality of the ore is more than double the average of that of the copper cros of this country. A provisional agreement has been made with the Great Barrier Company for transferring the mine and plant (including two steam-engines), with 300 acres of land, to this company, on the following very moderate terms:—£15,000 (5000 paid-up shares and £5000 in money), and a royaty of 1-20th on the ores soid. The Great Barrier Company intend to retain these paid-up shares as an investment.

All proliminary, legal, and other expenses, up to and including registration, promotion of the company, and brokers' commission, have been defined and agreed for at 5 per cent. upon the nominal capital of the company.

As soon as the necessary capital is subsoribed for the requisite machinery will be ordered and sent out. It is also proposed to appoint Capt. Holdman the managing agent of the operations, which he has offered to undertake at a reasonable salary; and as he is already in the colony the expense of sending out an agent will be aved, and no time bollet in carrying out the objects of the company.

Looking, therefore, at the large quantity of productive ground already laid open (which by Capitain Holman's estimate of the quantity of productive ground already laid open (which by Capitain Holman's estimate of the quantity of ore and its produce may be valued at about £50,000, the quality of the core, the advantages

colony.

A large number of the shares being already taken, applications (in the form annexed to the prospectus) may be made for the remainder, which will be allotted in the order they are applied for.

The directors will be prepared to receive applications from parties desirous of paying

The directors will be prepared to receive applications from parties desirous of paying up their calls in full, on which interest will be allowed at the rate of δ per cent. per respectuses, with forms of application for shares, can be obtained from the office, or m the brokers.

Among other testimonials in favour of Capt. Holman, the following have been received from Mr. Humphry Willyams, banker, Truro, and a partner in the well-known copper smelting from of Mesars. Sims, Willyams, & Co.:—

Carnanton, Oct. 5, 1861.—It gives me great pleasure to reply so satisfactorily to your enquiry about Capt. Holman. I have known him for a great many years, and have employed him on many occasions and in all parts of the world. He is an extremely intelligent, judicious, and trustworthy mun, sober and honest to the fullest extent, and I consider him to be fully competent to be entrusted with the management of any mining undertaking.

H. WILLYAMS.

Miners' Bank, Truro, Oct. 23, 1861.—I sincerely wish for your success in your proposed undertaking, and I take the present opportunity of confirming my previously expressed opinion of the judgment and ability of Capt. Holman, of which I have had many years' experience.

II. WILLYAMS. Truro, Nov. 6, 1861.—You are at perfect liberty to publish my letter respecting Capt, Holman. My opinion of him exceeds what I have expressed on paper.

H. WILLYAMS.

THE CENTRAL SNAILBEACH MINING COMPANY

(LIMITED).

Duly Incorporated.

apital £10,000, in 10,000 shares of £1 each. Deposit on application, 2s. 6d. per share.

5s. per share payable on allotment. No call to exe

must elapse between each.
DIRECTORS.

JOB TAYLOR, Dudley.
EDWARD HENRY LOWE, Shrewsbury.
GEORGE JOSEPH ENGLAND, Dudley.
JOHN JOB, Snaibeach.
Consulting Engineers.—Messrs. Phillips and Darlington, Moorgate-sireet Chambers,
Moorgate-street, London.
BANKERS.—Messrs. Rocke and Co., Shrewsbury.
AUDITORS.—JOHN Thomas Bell, Shrewsbury; John Treasure, Newport, Shropshire.

REGISTERED OFFICE,-SWAN HILL, SHREWSBURY.

ABRIDGED PROSPECTUS.

company's extensive and highly-mineralised sett adjoins the western boundermanently lucrative Snailbeach Lead Mine, Shropshire, with the New Year on the south. ast is being sunk for intersecting Snailbeach main vein and Davies's vein at their

Junction.

Upwards of 3100 shares of the company's capital are taken, and it is propor
3000 more.

3000 more.

Applications for shares may be made to the secretary, who, as well as Messre. PhilLife and Darlinoton, will forward prospectuses and plans, and also afford any further
information. Early applications are requested.

SAML. HARLEY KOUGH, Solicitor and Secretary,
Shrewsbury and Church Stretton.

INSPECTORS and VALUERS of MINES, &c., MELBOURNE, VICTORIA, OFFER THEIR SERVICES to SELECT and INVEST CAPITAL IN MINING PROPERTIES, for which they charge 2½ per cent.; and they also COLLECT and TRANSMIT the DIVIDENDS, charging £5 per cent. on their amount. Mesers. Legester and Co. carnestiv call the attention of capitalists to the many opportunities they possess of investing, to pay from £50 to £150 per cent. per annum. Sums under £50 will be charged exits. All resultances must be made through our agent, Mr. Richard Middle Land Middle Color of the Color of the Color of the Color of the Union Bank of Australia.

Now ready, price is.,

BEING THE EIGHTENTH ANNUAL REVIEW.

BY J. Y. WATSON, F.G. S., Author of the Compendium of British Mining (published in 1843), Gleanings among Mines and Miners, &c.

The SEVENTHENTH ANNUAL REVIEW or MINING PROGRESS appeared in the MINING JOURNAL OF December 29, 1869, and January 5, 1861.

A FEW COPIES of the REVIEW OF 1855, containing Statistics of the Metal Trade the Dividends and Percentage Paid by British and Foreign Mining Companies, and the State and Prospects of upwards of 200 Mines. Also a FEW COPIES of the REVIEW OF 1852, 1853, and 1854, MAY BE HAD on application at Messrs. WATSON and CUELT'S Mining offices, 1, 3t. Aichael's-alley, Cornhill, London.

ining offices, 1, St. Michael's-alley, Cornhill, London.

Also, STATISTICS OF THE MINING INTEREST. By W. H. CUELL.

WATSON AND CUELL'S MINING CIRCULAR, WATSON AND CUELL'S MINING CIRCULAR, published every Thursday morning, price 6d, or £1 is, per annum, contains Special Reports of Mines, and the Latest Intelligence from the Mining Districts, from an suclusive resident agent; also, Special Recommendations and Advice upon all subjects commected with Mining, and interesting to investors and speculators. A Record of Daily Transactions in the Share Market, Metal Sales, and General Share Lista, &c. Edited by J. Y. WATSON SP. G. B., and published by WATSON AND CUELL, 18X. Michael's-alley, Cornhill, N.B. Messrs. WATSON and CUELL have made a selection of a few dividend and progressive mines, which they have reason to believe will pay good interest, with a probability, also, of a rise in value, the names and particulars of which will be furnished on application.

INVESTMENTS IN BRITISH MINES.—
Mr. MURCHISON'S REVIEW OF BRITISH MINING for the QUARTER ENDING 30711 MARCH, 1861, with Particulars of the Principal Dividend and Progressive Mines, Table of the Dividender Paid in the last Five Years, &c., is NOW READY. Price One Shilling. At 117, Bishopsgate-street Within, London, E.C. Reliable information and advice will at any time be given on application.
Also, COPIES of "BRITISH MINES CONSIDERED AS AN INVESTMENT." By J.H. Muschisons, Eq., F.G.S., F.S.S. Pp. 356, boards, price 3s. 6d., by post 4s. See advertisement in another column.

Price Threepence,

ENTILATION OF COAL MINES.

AN ESSAY ON THE CAUSE OF EXPLOSIONS, AND MEANS
OF PREVENTION.
By a COLLIERY MANAGER.

Free and unprejudiced minds with neither antiquate truth for the oldness of the notion nor slight her for looking young, or bearing the face of novelty.—Henry Mone, F. R.S.
London: To be had at the Mining Journal office, 26, Fleet-street, E.C.

SPLENDID GEOLOGICAL WORK.—The whole of South Wales on the scale of I inch to the mile, beautifully action with the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the mile, beautifully actions to the scale of I inch to the mile, beautifully actions to the mile, action to the mile, beautifully actions to the mile, action t on the scale of 1 inch to the mile, beautifully coloured, mounted on roller, variabled, £4 10s.; or on spring roller, £9 9s. North Wales, similarly coloured, roller, £4 4s.; spring roller, £2 9s. North Wales, similarly coloured, roller, £4 4s.; spring roller, £3 15s. Also, the vertical and horizontal sections, mounted on linen, in half morocco cases, for South Wales, £10 10s.; North Wales, £8 8s. Every good geological map published. Plans, sections, and maps littographed, traced, coloured, or mounted, with promptitude. Hiustrated catalogues of the whole of the Ordanace and Geological Survey, and of other valuable maps, atlanes, and guides, will be sent per return of post (on receipt of one stamp) by Letter, Sox, and Co., 8, Royal Exchange, London, £C., map sellers and mounters, lithographers, printers, and draughtsmen, and agents to the Board of Ordnance and the Geological Society.

MR. JAMES STRIDE is PREPARING for the press a CONTINENTAL TOUR for GEOLOGISTS and BOTANISTS, and LOVERS of MOUNTAINOUS and PICTURESQUE SCENERY.—Address, Mining Journal office, 26, Fleet-street, London, E.C.

Now rendy, large octave, half bound, price 10s. 6d.,

A simple and complete system of double entry, expressly adapted for the iron
trade, showing the method of ascertaining the cost per ton of the puddied bar and finished
iron.

By G. J. WILLIAMS, Accountant,

Eighteen years cashier and book-keeper in extensive works.

"A book which renders systematic book-keeping as simple as the writing of an invoice."

London: Mining Journal office, 26, Fieet-street, London, E.C.

ASSAY OFFICE AND LABORATORIES,
29, GREAT ST. HELEN'S, and FORD ROAD, OLD FORD.
The PARTNERSHIP between MITCHELL AND RICKARD having EXPIRED.
His BUSINESS will in future be CONDUCTED, as hitherto, under the PERSONAL SUFERINTENDENCE of W. T. RICKARD, F.C.S. (Assnyer of the Precious Metals, &c., by special authority of the Chillan Government), who will pay all outstanding debts against the late firm.

JOINT-STOCK COMPANIES PROMOTED. REPORTS, PROSPECTUSES, NEWSPAPER NOTICES, &c., PREPARED and ADVERTISING METHODISED, by Mr. LEE STEVENS, No. 36, CANNON STREET, LONDON, E.C.
FINANCIAL AND ENGINEERING CONTRACTS.

Hotices to Correspondents.

* Much inconvenience having arisan, in consequence of several of the Numbers during the past year boing out of print, we recommend that the Journal should be regularly, filed on receipt: it then forms an accumulating useful work of reference.

THE MWYNDY IRON ORE COMPANY.—I regret not being able earlier to reply to "H. B.," in the Journal of March 22. I was desirous of giving the ore a fair test, which I have now done. I have had three lots tried, but not a particle of silver was there found. I find "Constant Reader" (in the Journal of April 19) enquiring about this mine. I do not know whether he considers Mr. Maxwell's reply, in the Journal of April 20, a sufficient answer to his enquiry. I will ask Mr. Maxwell why the report of silver having been found was not at once contradicted, when he and the directors were fully aware that no such thing was found. I cannot see how it would be "premature ou the part of the board" to contradict this. The secretary also states that silver was found in one instance: will he be good enough to furnish, through the next Journal, your anxious readers and shareholders with a copy of the analysis, and the name of the assayer? Will the secretary also say why a fortnightly or monthly report is not given of the mine, signed by the captain, the same as the Cornish mines are reported? The shareholders would then know exactly flow the mine is progressing. As it is, they know nothing. Seweral friends of mine were induced to take shares on the faith of the company's prespectus, and it is nothing but right that we should know all about it. A report, as above, would have the desired effect.—J. W. M.
Sir.—Can any of your readers inform me whether it is usual for a manager entrasted

iii. A report, as above, would nave the desired effect,—J. W. M., m.,—Can any of your readers inform me whether it is usual for a manager entruste with and paid for preparing for sale the materials of a mine, to convey to himself and his friends several cart-loads of timber, and charge the shareholders with the expense of doing so? If the timber is of little value, would it not be wrong to waste the share holders' money to bring it to surface? If such things are done in the daytime, coul not plunder to a greater extent be perpetuated in the night season?—J. T. KEVERN Penance. May 14.

not plunder to a greater extent be perpetuated in the night season?—J. T. Kevenn: Pensance, May 14.

Mink Licenses.—I thank you for publishing my enquiry in the Journal of May 3, and shall be glad if you will now insert the following—Do the English miners pay for any license for mining for copper, tin, lead, or zine? In Scotland there is an Act whereby the Government can exact 10 per cent. If you in England have not this duty, it may truly have been said—this is the reason Scotch ores are not worked. I am resolved to get at the bottom of this matter, and then set our Scotch M.P.'s to look to their duty. I really may state that till moved in the matter there was not a Scotch copper mine of note going; Lord Broadalbane was simply working for his pleasure. Is there a Mining Government Office in England where taxes are levided on ores? Firstly, What are those taxes? Secondly, Are these taxes on ores payable in England, Scotland, and Ireland? Or, thirdly, Are the offices simply for the payment of taxes in England? As to licenses, I am told that we in Scotland are simply as that the same privileges should be extended to Scotland as are enjoyed in other parts of the kingdom.—W. GURLIN MINE.—If your correspondent, "M.Y. Z.," really be in carnest in the enquiry he makes respecting the "wonderful" Gurlyn Mine, Ithink I can easily explain to his satisfaction why there are no shares to be bought in the London market. Although quoted weekly in your List, and now standing nominally at 15s. to 17s. 6d., are rarely if ever dealt in : simply from the reason that they are principally held by country shareholders, who went into the mine as investors, not a speculators, and are, therefore, free from that jobbing which characterines the shares of other and more generally favourite mines with the brokers. Since the mine was first brought out, two or three years ago, there have, perhaps, been fewer changes than in any other mine of the like number of shares; and, as evidence of the estimation in which the mine is held in Corawail, I

they have been bought up by holders principally residing in the district of the mine. The last report issued to the shareholders, which I have just received, proves this; for out of about 200 shares that have changed hands, nearly all the purchasers reside in Cornwall, and the most of them are persons who have increased their holding. The prospects of the mine are now so cheering that there is little doubt that, if the brokers were to turn their attention to it, there would not only be very extensive transactions in the shares, but the results would be satisfactory to the speculators. If "X. Y. Z." however, really means to purchase, he must prepare his mind for a higher price than that quoted in the Journal of Saturday last. One word more. I do not understand why "X. Y. Z." should designate Gurlyn a "wonderful" mine: It is an honest, well-conducted undertaking, and the intention is to make it a success: there is, however, nothing "wonderful" in it. Most assuredly it promises well, and the shareholders have now every reason to congratulate themselves on their prospects.—A Sharmonder.

conducted undertaking, and the intention is to make it a success: there is, however, nothing "wonderful" in it. Most assuredly it promises well, and the shareholders have now every reason to congratulate themselves on their prospects.—A Shareholders have now every reason to congratulate themselves on their prospects.—A Shareholders have now every reason to congratulate themselves on their prospects.—A Shareholders have now every reason to congratulate themselves on their prospects.—A Shareholders have now every reason to considerably, and buyers are offering freely, without meeting with sellers.

MINE SURVETING—"J. de L." (Swansen).—The proposition to make underground surveys without the use of the magnetic needle is not now, and there is no doubt that the circumferentor will at no distant date entirely supersede the common dal. Surveying with the circumferentor is thus described by Budge in his "Miner's Guide: "—The method of surveying on this principle differs from the magnetic method chiefly in one particular—namely, in every fresh draft the position of the sights, and the angle made at the old station must be obtained and preserved at the new station, and this is evident because we have no magnet for our guide. For example: Suppose we are surveying length the instrument is removed and carried forward to the place of the light where strument has been adjusted in its true place, the next act of the surveyor is to place the eastist and its are place, the next act of the surveyor is to place the entire of the venier on 250°, as it stood at the old station, and if the instrument does not move by rack work he must keep all firm with his hands, and turn the head towards the last station, until the candle is seen through the sights. He then removes behind the instrument, and moves the sights in the direction for the next draft, where the assistant is holding a light for the purpose (the graduation being fixed), and this new draft gives (say) 270½°, showing a difference between the two drafts of ith processes with r

divisions more distinct, together with the varnier scale read off to one or two minutes—a nicety which cannot; common way. It is hardly necessary to state that in a must be at least one draft in the traverse where the nee and this draft will determine the polarity or direction of and this draft will determine the polarity or direction of the discovered a means of dispensing with the compass altogeth novelty, and we shall be glad to publish a description of the Mr. Evan Hopkins is expected to be in the neighbourhood of Delg about the end of next week.

SIR,—Would one of your correspondents, who is proprietoren Crown inde their wall or elsewhers, inform me what charge the Crown make on the med of head, or tin cress? If the landlord received 2001, from his times, the medium crown demand from the landlord?—X. Z.

PORT PHILLIP GOLD COMPANY.—The Clunes Mine report reached as included sent Journal, but it shall appear next week.

THE MINING JOURNA Bailway and Commercial Gazette,

LONDON, MAY 17, 1862.

At a moment like the present, when several projects for appring hes capital to the development of the auriferous deposits both of Wals and our North American provinces are on the eve of being introduciles public, an almost inestimable value attaches to such paper as hes "Gold Mining and the Gold Discoveries made since 1831," and the Society of Arts, on Wednesday evening, by Mr. John Armer has Lifes, and which we publish in extense in a Supplement with Journal. Of the author's ability to deal with the question want, nothing, since he has already acquired a high reputation as a chair metallurgist from the publication of his very excellent "Manuals ha lurgy," a work which has been declared by so eminent a substrain to be the only reliable work in the English language, and as who only surpassed in utility by the costly volumes now issuing by the hash innself. Of the manner in which Mr. Phillips performed the tale had undertaken, it will suffice to allude to the remark of the Psic Mr. Thomas Sopwith—"I have seldom listened to apper in which had undertaken, it will suffice to allude to the remark of the Psic Mr. Thomas Sopwith—"I have seldom listened to apper in which ject has been more clearly brought forward." We have the pin alluded to the position of Mr. Phillips, became it must be above that, however startling a statement may be, it becomes unimported to the first that it almost always, if not always, does so cour, tell are from the results of numerous experiments which he has made be inite to the belief that gold does sometimes occur in small quantitie, in the of sulphides, but that oxide of gold, for the extraction and missing to the belief that gold does sometimes occur in small quantitie, in the of sulphides, but that oxide of gold, for the extraction and missing the subscience of the proper with the sum and quantities, in the of sulphides, but that oxide of gold, for the extraction and missing the subscience of the proper with the proper with the proper with the sum and quantities, in the of sulphides, but

to the belief that gold does sometimes occur in small quantitie, in the of sulphides, but that oxide of gold, for the extraction and missing which sundry much-vaunted processes have been devised, does not any of the known auriterous ores. We quite agree with Mr. Riu that it seems doubtful whether, in every instance, all the gold in a sulphides exists in the form of minute metallic particles, and can will depend the facility with which the seguritual public secielled sale derstand the facility with which the sesquisulphide especially of galf as be formed in Nature. Mr. PHILLIPS's view would likewise appear confirmed by the fact that all gold metallargists well know that the gold is associated with metallic sulphides a different treatment is shall gold in the confirmed to the same of the confirmed to the confirme necessary to extract the gold—a circumstance which would searely pected to exist were all the gold in the metallic state. As the can of the gold from the sulphides would present some little difficulty in the gold from the sulphides would present some little difficulty in the gold. gamation, he suggests that the pyrites, &c., in the tailings shoul parated, and subsequently subjected to metallurgic treatment by fuite parated, and subseq some lead product.

some lead product.

With regard to the gold formations of North Wales, Mr. Hazsh gument certainly appears unanswerable, that if in Australia, when he fuel, and machinery is costly, gold ores containing but 10 dwts. Subble profitably treated at 8s. 4d. per ton, there is good reason to super at the Cwanheisian, where the ore contains 15 dwts, and labor, is machinery are comparatively cheap, at least an equal amount of press be obtained. We may here remark that the prospect of gold mine. Merionethshire being found remunerative is much increased by the very made on Saturday last at the Clogau Gold Mine. In dring lower cross-cut west the bunch of visible gold worked in the 5 is was cut very rich, thus clearly proving that the assertions of a speauthority that the Welsh deposits are merely surface deposits are side out, the lode at the deepest point in the mine, 46 yards, being a min at surface.

At surface.

As to the extent to which gold mining advances the interest of a trict we think that Mr. Sopwith's remarks upon the export of this from the colony of Victoria, and the steady increase which has been on, in spite of the predictions that the yield could not be contained very appropriate. In 1851 the export of gold was but 145,1460,540 value of 580,5872, whilst in 1860 it had increased to 2,156,660 and 8,626,6424, the accurage to export in the ten last years being in

value of 580,587%, whilst in 1860 it had increased to 2,156,680 cm, value of 580,587%, whilst in 1860 it had increased to 2,156,680 cm, 8,626,642%, the aggregate export in the ten last years being 24,000,000 ozs., worth 95,671,918%; this was according to the certurns, but if the private shipments be added it raises the total value of all the metalliferous products of the United Kingdom to the same period.

The whole of the discussion upon Mr. Phillips's paper was of a ceedingly instructive and useful character; and as no attempt submade to disprove the existence of a large and valuable antireval made to disprove the existence of a large and valuable antireval even by those in the room who had previously asserted that the matrix deposit extended over but a few fathoms, and to no consist depth, we may hope that the richness of the district has been as a proved that the operations of the several undertakings now being will be attended with success. It may certainly be supposed this cient experience has now been obtained with reference to the committened to gold to enable almost any auriferous deposit yielding unit traction of gold to enable almost any auriferous deposit yielding unit traction of gold to the ton to be worked to a profit; and we may, the conclude that whether the field for enterprise be Wales, Nora Sas British Columbia, capital, energy, and careful management cannot meet its reward.

A few weeks ago we had occasion to bring before the attention readers the cases of the TRETOIL and WHEAL ANNE MINISO Correction which the Master of the Rolls decreed that those companies are wound-up in his Court, and not in the Stannaries Coart. We has served that, although the proceeding would have the effect of depring latter Court of a great deal of its business, and consign mine commission to the coatly horrors of Chancers wat that each Court had rightly as latter Court of a great deal of its business, and consign minel latter Court of a great deal of its business, and consign minel to the costly horrors of Chancery, yet that such Court had rise the jurisdiction it had exercised, and that the jurisdiction of the latter of the court of Chancery has proceed Since the above cases, the Court of Chancery has proceed several other Cornish mining companies, and, no doubt, wo several other Cornish mining companies, and, no doubt the North Wheal Exmouth Mining Company, which is the North Wheal Exmouth Mining Company, which is the North Wheal Exmouth Mining Company for the future. In that case a petition was propre cautions for the future. In that case a petition was propre cautions for the future.

more cautious for the future. In that case a petition was prained an order which had been made by the Rolls Court in the petition of a shareholder, for winding-up the mine, win the county of Devon. The present petitioners, Messrs. Surf.

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all delared to be functus officio. To contributories this is a very sen abeliar delared to being a well-recognised fact that, beside the processing of Court.

THE LONDON COAL TRADE.

February and March last, when the London Coal Market was in a niscrable condition than it had been for very many years before, we ed the shippers of coal to London to effect, amongst other reforms, an isid the shippers of coal to London to effect, amongst other reforms, an agement by which their exportations might never exceed the legiting demand for the article, and not to persist in the mad policy of sping their pockets into the purses of the London factors and coal mersist of the Northern Coal Trade Association, therefore, issued a cirrestongly recommending the owners of household collieries not to work a than eight days per fortnight until the first of May, and urging all sters of coal to the Thames to be as sparing in their shipments as posters of coal to the Thames to be as sparing in their shipments as posters of coal to the Thames to be as sparing in their shipments as posters of coal to the Association, has had a beneficial effect, for comments to the Pool having been more moderate, the general tone of metropolitan market, though still unsatisfactory, has, as our readers are at undergone improvement. The Association has now sent out an circular, pressing upon the trade the necessity of adhering to the same se of action for a couple of months longer. The following is a copy to document:—

hadring to the circular to the trade which was issued by the general committee of the circular to the trade which was issued by the general committee of the May program of the support of coals, and especially those shipping to Ludde market, to curtail their shipments until the lst of May, your attention is respecially drawn to the state of that market. It is clear that, had that advice not separate to be coalewhere of this district generally, and had not the same views asked upon to a very great extent by the inland coalewhere, the present state of the spalian market would have at this moment been much worse even than it now is, emmittee accordingly deem it their duty further to urge upon the coalewhere as the peristance in the same course until the close of the month of June, when it is to probable that circumstances may render its continuance less necessary.—

[In Italia, May 8, 1862."

ther the end of June, we suppose, the trade will revert to the system suppetition which has brought it so low, and glut the market as before, leng fresh circulars and more pressing advice from the committee of leng fresh circulars are common observer of events this personal coal trade necessary. To a common observer of events this personal surject policy by a body of enlightened commercial men seems surject by the factorage sysing, but it is not more strange than their tolerance of the factorage sysing, but it is not more strange than their polaries and taxes that are said their apathy with respect to railway charges and taxes that are said upon the commodity they vend for the benefit of the metropolis. e coal rade ought to be a most powerful body, for it comprises men of the wealth and vast influence, and is well represented in Parliament it walm and vast inducted, it laks unity and earnestness of purpose in promoting its interest, and the its achievements always fall short of its power and capabilities, and the necessity which compels us to write so pointedly, but it is consists see a most important branch of commerce thrown into confu-and apparently tending to the ruin of some of the and apparently tending to the ruin of some of its members, for wan anion, energy, and public spirit which distinguish most other de-tes of the national industry.

WILL RED-HOT IRON IGNITE CARBURETTED HYDROGEN GAS?

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As the extra difficulty is:

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Intil within the last few years it was generally understood amongst science men, connected with mining operations, that inflammable gases would ignite when in contact with heated iron. Acting under this impression, the feelahers proposed what was called the hot cylinder process of mine allation, which consisted in placing a cast-iron cylinder, open at both it, apon a furnace, when the cylinder, being enveloped in flame, rarelihe air as it passed through it. The late eminent John Buddle, in his known lotter to the Sunderland Society for Preventing Accidents in knike (tempus 1814), alludes to this system, and asserts most posity than "inflammable gases never ignite at hot iron." In the state of airs knowledge then existent, Mr. Buddle was justified in making this miton, for nothing was known to the contrary. But of late years, as see has progressed, and the nature and properties of gases have bear known, mining engineers have obtained more accurate information matters that were formerly obscure, and have made discoveries that were er suspected by their predecessors. We know now that Mr. Buddle's tan was incorrect. Sulphuretted hydrogen gas, although it does not suptembastion, may be inflamed by charcoal or iron, even at a low redit; and experiments tend to the conclusion that carburetted hydrogen, fire-damp of mines, also can be ignited, though not so easily, by iron state of heat. We say "tend to the conclusion," because it is not yet sitted that the ignition of fire-damp by hot iron is an undeniable fact; because we wish to raise the question, and press it to a solution. Our mation on the subject is very incomplete, and we desire to see it full decisive, conceiving that there are few matters connected with mining rations, especially in the coal-yielding districts, of greater importance. In the fellowing extract a short paper by Mr. G. C. Greenwell, in the Transactions of the th of England Institute of Mining Engineers:—

1 Friday, May 27 (1853), I, in company with Mr. Simpaon, made some experima life decisive c atil within the last few years it was generally understood amongst sciennen, connected with mining operations, that inflammable gases would

a short paper by Mr. G. C. Greenwell, in the Transactions of the rh of England Institute of Mining Engineers:—

Friday, May 27 (1853), I, in company with Mr. Simpson, made some experisal Townelsy Colliery, in order to ascertain the effect of placing red-hot Iron in containing the interest of the containing red-hot Iron in containing the interest of the surface; it then passes through a drowned drift in the Three-Quarter seam of this colliery, is systly means of a pipe in the shaft to the surface; it then passes through his into a gasometer, and thence to various burners in the shops and elsewhere. Is also a cock between the top of the shaft and the naphtha vessel, whence, when is, the gas issues in its natural form. The first experiment consisted in placing a labar state of the containing the same state of the containing the same state of the containing the same state of the containing the containing the same state of the containing the same state of the containing the same state of the same state of the containing the same state of the sam

the red-hot iron would explode fire-damp, and this experiment shows that it did that pass in the first case, however, the gas passing through naphtha would replode fire-damp, and this experiment shows that it did that pas. In the first case, however, the gas passing through naphtha would resolve profined the spirit, and be similar to be red to the second case the gas was applied before it passed through the substitution would be similar to assisting from a blower. Whether any increased salidity was produced by the gas passing from a blower. Whether any increased salidity was produced by the gas passing from a blower water, was an important But there was another me important point in these experiments, which has gas they would observe, did not fire at the first wires, or in passing into the site wires, it is spassing, that the effect of heating the gas as it passed through, which is the content of the site of the lamp, and approached the red-hot wires, which were the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, which were the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, which were the site of the lamp, and approached the red-hot wires, where the site of the lamp, and approached the red-hot wires, where the site of the lamp and approached the red-hot wires, where the site of the lamp and approached the red-hot wires, where the site of the lamp and approached the red-hot wires, which was a site of the lamp and approached the red-hot wires, where the site of the lamp and approached the red-hot wires, where the site of the lamp and approached the red-hot wires, and the site of the lamp and approached the red-hot wires, and the site of the lamp and approached the red-hot wires, and the site of the l

on, more inflammable.

arwwill.—I may explain that these experiments with the gauze were made
star it had passed through naphtha; but in the experiments I made with iron.

but first had greeness between passing the gas through naphtha and not doing so.!

LIOTI.—Was there may pressure?—Mr. GREENWELL: There was the ordinary
list same as you see in a burner.

But had the will be well to have the gas analysed?—I have sent some

Theorem.—Would it not be well to have the gas analysed?—I have sent some same suppose, so that the constituen by a secretained.

ascratained.
T.—I suppose the explosion would not be instantaneous—there would be all after the gas was passed through the wires?—Mr. GREENWELL: It was —We there the same degree of heat in the experiments?—Mr. GREENWELL

no,
—it is quite clear that these experiments ought to be carried further
en, they are very interesting.

the with Mr. Wood that these experiment ought to have been as mane, a select committee of the House of Commons was investigate the causes of accidents in coal mines. But al-

though that committee, and a committee which sat in the following year, heard a good deal of evidence relative to the effect produced by rapidly passing the Davy lamp through currents of inflammable air, &c., no allasion to Mr. Greenwell's discovery seems to have been made by any of the members of the Northern Institute who were examined. Our present state members of the Northern Institute who were examined. Our present state of knowledge on the subject is, therefore, imperfect and unsatisfactory to a degree which, when the importance of the matter is considered, must be accounted surprising. Who can tell how many accidents have risen through a misplaced confidence in the non-explosive properties of a heated safety-lamp, and how many disasters might have been prevented if the true nature of the effect produced upon fire-damp by contact with hot iron had been more accurately known? Neither pains nor expense were spared in investigating the relative merits of the steam-jet and furnace ventilation; we should be glad to hear that similarly careful experiments had been commenced with a view to obtain a decisive appear to the question which menced with a view to obtain a decisive answer to the question which heads this article. Our space is limited, for we represent many separate branches of mining industry, but a reasonable portion of it will always be at the service of practical men who will undertake the investigation, and tell us whether or not—and, if the former, under what circumstances—red-hot iron will ignite carburetted hydrogen gas.

AMERICAN OR ROCK OIL, AND PARAFFIN OIL.

A comparison was drawn in last week's Journal between the ordinary rock oils of America and Young's paraffin oil, in order to show that although rock oils of America and Young's paratin oil, in order to snow that atmough accidents have occasionally occurred from the incautious use of unpurified mineral oils, they are absolutely safe and inexplosive when manufactured with ordinary care. Young's parafilin oil was taken as a type of safe-burning oils, and we stated that the temperature at which Young's oil would ignite without a wick, or, in other words, its explosive point, was from 140° to 150° Fahr., whilst 130° was fixed as the standard of absolute safety. We stated that of 32 samples of paraffin and similar oils purchased retail in Manchester, and analysed for the Manchester and Salford Sanitary Association by Mr. Charles O'Neill, the well-known analytical chemist, five only were found to be dancerous, and four others slightly unsafe, tary Association by Mr. Charles O'Neill, the well-known analytical chemist, five only were found to be dangerous, and four others slightly unsafe, though not dangerous, because exploding at a temperature which may, under extraordinary circumstances, exist in domestic rooms. The remaining 23 samples varied between the standard of safety and that of Young's best oil, all of them being, in the opinion of Mr. O'Neill, "beyond the limit of possible danger." In no single instance was Young's oil, or oil possessing similar properties, found to be unsafe, a circumstance which may be attributed to the difference between the lowest temperature at which such oil will explode and the standard of safety which is at least 10° Fahr. But although chemists well know that this 10° is ample to ensure safety, it must be acknowledged that the public are but too apt to regard 10° Fahr, as so slight a variation in temperature as to be insufficient to give them confidence; the consequence being that they abandon the use of the oil altogether.

Now nothing can be more easy than to determine the relative explosi-

a variation in temperature as to be insufficient to give them confidence; the consequence being that they abandon the use of the oil altogether.

Now nothing can be more easy than to determine the relative explosibility of burning fluids, it being simply necessary to consider that the danger is caused by the fluid becoming converted into gas, and the ignition of a mixture of this gas with the surrounding air. The danger, of course, increases according as the temperature at which the fluid is converted into gas decreases, and hence it is that as in ordinary cases the temperature of 130° Fahr. cannot be obtained in a lamp, and as Young's oil requires a temperature of 140° Fahr. to convert it into gas, such oil may be employed with safety. But, as we have remarked, 10° Fahr. is too often regarded as too small a margin to depend upon, and to remove this obstacle to the general use of mineral oils, the ASPHALTUM COMPANY (Limited) have just introduced into the market an oil that will not ignite under from 190° to 200° Fahr., giving a margin of safety equal to five times that claimed for Young's oil. Indeed, to such an extraordinary degree of safety have the oils of the Asphaltum Company been brought that we have seen them burned in an ordinary moderator lamp. We do not intend to say that it could be so burned by the general consumer, as after some thirty minutes burning the flame begins to creep down the outside of the tube, and the experiment then becomes dangerous, but we understand that the company do not despair of rendering it as inexplosive side of the tube, and the experiment then becomes dangerous, but we understand that the company do not despair of rendering it as inexplosive as colza oil. The effect of the success already attained is, that whilst the Paraffin Light Company can guarantee the safety of their oils up to 130° Fahr., the Asphaltum Company can with equal certainty guarantee theirs at all temperatures under 180°. This extreme safety, moreover, is secured without lessening the illuminating power of the oil, and results from extracting the dangerous ingredients in a valuable marketable form, and at a cost that well repays all outlay incurred in the extraction.

ALBERT IRONWORKS (near Whitby, in the Cleveland District).—During the past week there has been great rejoicing in the villages adjacent to these extensive works. On Tuesday last blasting operations were commenced, and on Wednesday and Thursday we observed on the ground a number of the directors, as well as several influential gentlemen in the neighbourhood; on the latter day several of the proprietors visited the works, and the "tapping" was performed by Mr. C. H. Turner, the Chairman of the company, when a splendid run of metal was obtained. The directors were gratified to find that the quantity of metal produced was considerably beyond what the stone was expected to yield; the quality also far exceeded their expectations. These works have been erected at considerable outlay, and the proprietors have been fortunate enough to begin at a time when the iron trade is recovering from its late depression. The company purpose erecting large cement works on the premises, as they have an abundant supply of stone. Altogether, the works are in a fair way of repaying the spirited shareholders a large dividend for their outlay.

MANUFACTURE OF STEEL.—So many propositions for improving the quality of steel have been proposed, so many impracticable schemes have been brought forward, and so many old processes have been re-invented, that we have almost learned to wonder at nothing; otherwise we should have been inclined to refer to the invention which has been provisionally have been inclined to refer to the invention which has been provisionally specified by M. Rousselot, of Paris, as worthy of particular attention. We have had to record the peculiar notions of an auriferous and argentiferous iron patentee, of pneumatic iron makers, and of titanic steel producers, yet few of them have done much good either for themselves or in the cause of science—Mr. Longmaid is now unheard of; Mr. Bessemer, we believe, has almost abandoned his original invention for using good iron as fuel; and Mr. Mushet has discovered that he can make a quality of steel which gives every satisfaction to the miner, who is very choice in his selection, without bringing ore 12,000 miles to make it of, and with but a very slight modification of the old and well-tried process. The invention of M₄Rousselot is described as calculated not only to improve the quality of cast-steel, but also to harden other metals. According to his process, the iron to be converted into steel is immersed in a solution composed of 30 parts of boric acid, with 1000 parts of water, at a temperature of 10° C., or 50° Fahr. acid, with 1000 parts of water, at a temperature of 10° C., or 50° Fahr., the iron being allowed to remain a sufficient time for the liquid to completely penetrate the oxide of iron; it is then removed wet from the bath, pletely penetrate the oxide of iron; it is then removed wet from the bath, and at once placed in a crucible or furnace for melting, being covered, as usual, with slack. He employs the furnaces, forges, and crucibles of the usual kind; the amount of heat to which the iron is subjected must be beyond that of the melting point of iron, but below that of steel. The steel thus obtained neither requires re-baking nor refining, and is applicable to a variety of uses; it often does not require tempering to receive an edge, which it retains longer than other steel. The steel can be cast into bars, care being taken to keep it at a dull red heat before red heat, after which it can be worked or refined in the ordinary manner. Instead of the solution he sometimes employs 0,008 parts of borate of soda to 1000 parts of iron in the crucible, covering the mixture with damp coal. The proportions vary according to the quality of the metal, and the chemical equivalents may be substituted for the borate of soda.

A New Drawing-Room Fuel.—A description of fuel which will, no doubt find favour in the drawing-room, and which may also admit of the sale, at a highly remunerative price, of coal of a size which at present renders it almost unmarketable, has been patented by Mr. E. Breffit, of King William-street. The inventor proposes to make small wooden boxes about the size of ordinary building bricks, and to fill them with coal, the advantage claimed being that the first could be kept supplied with fuel with the size of ordinary building bricks, and to fill them with coal, the advantage claimed being that the fire could be kept supplied with fuel with greater comfort than at present, the boxes being readily taken up without soiling the fingers. Mr. Breffit proposes that the blocks should be piled beneath the drawing-room table, or in any other convenient position, and it will be apparent that with very slight modification the present unsightly scuttle could be superseded by really ornamental devices. For example, by covering the boxes with chromo-lithographs or classic engravings they could be tastefully arranged with other ornaments, or as stands for sta-

tuettes in various parts of the room until required for use. An ample supply of fuel could thus be kept always at hand.

REPORT ON CORNWALL AND DEVONSHIRE. [FROM OUR CORRESPONDENT IN TRUEO.]

MAY 15.—WHEAL UNION is a mine which seems now to be attracting much attention. It lies just to the west of Redruth—indeed, part of the town is included in the sett—and is bounded on the south by East Carn Brea and Uny, on the south by Great South Tolgus, and on the west by Carn Brea: the lodes traversing the sett are those of the latter mines. A sett so well situated, being on the run of the Carn Brea lodes, and on the parallel of East Carn Brea and Great South Tolgus, is naturally and justly a favourite with many, although not rich at the moment. The mine is principally on the property of Mr. Buller (the other lords are Mr. Robartes and the Messrs. Williams, of Scorrier), and, in common with most of the Buller property, was originally—at least within recent times—worked by Messrs. S. and R. Davey, of Redruth, who are the agents for that property. Their workings were, on the whole, unsuccessful—but then they were not pushed to any very great extent. The present workings commenced about six years ago, and are under the management of Capt. Thos. Glanville, of East Carn Brea. The principal workings at present going on are on three lodes—the Barnecose lode, the middle lode, and the south lode: as the workings on the last named—the south lode—are the oldest it may be well to refer to them first, although they are not at present the most important. The engine-shaft here is down to the 40 below adit, to which level it was put down by Messrs. Davey, not having been sunk at all by the present party: for the last 10 fms., from the 30 to the 40, it is sunk through greenstone, and the lode, which underlies fast north (about 41) for first, interest the fast term first, although they are not at present the sunk through greenstone, and the lode, which underlies fast north (about 41) for first, interest the present party: for the last 10 fms., from the 30 to the 40, it is sunk through greenstone, and the lode, which underlies fast north (about 41). which level it was pit down by Messrs. Davey, not having been sunk at all by the present party: for the last 10 fms., from the 30 to the 40, it is sunk through greenstone, and the lode, which underlies fast north (about 4½ ft. per fm.), has just come into the bottom. From this shaft the south lode has been explored in the 20, 30, and 40 fm. levels by the late and present party. In the 20 the old party cross-cut to lode, and drove 40 fms. east and 25 fms. west; the present party have continued this level 45 fms. more east and 50 fms. more west. In the 30 the old party cross-cut and intersected the lode, but did not drive on it; the present party have driven 70 fms. east and 40 fms. west. In the 40 the old party did not drive, but the present party have gone 70 fms. east and 15 fms. west. Nothing very striking has been opened out in these levels. About 30 fms. east of shaft the lode divides into two parts, of which the north, which is most extended on, may be considered the main one; but the south part, which in the 40 has been driven on for 15 fms., makes a large lode, 18 ft. wide, producing in places good work for tin. The same fork is formed in the lode in all the three levels, in each of which the south part produces work for tin, on this tin ground there are now three pitches working, one in each level. From the 30 fm. level, on this lode, a cross-cut is now being driven south from the south part (just east of the fork), to intersect another more southern lode; it is driven 10 fms., and has about 5 fms. more to go to cut the lode. This latter lode has been worked further west, from a shaft (called the western shaft) 70 fms. each of which the south parts which is such a shaft (called the western shaft) 70 fms. each of the forch, the intersect another more southern lode; it is driven to this, and has about 5 tms. more to go to cut the lode. This latter lode has been worked further west, from a shaft (called the western shaft) 70 fms. west of the engine-shaft, which is sunk perpendicular to adit (by Davey's), and has been continued on the course of the lode by the present party to 6 fathoms below the 20. This more southern lode falls in with the south lode going west; for while at the engine-shaft they are about 15 fms. apart, they are only 7 fms. apart at a cross-cut which has been driven in the 20 fathom level, 10 fathoms west of western shaft, to interest the such lode which has been cut here, but not cross-cut which has been driven in the 20 fathom level, 10 fathoms west of western shaft, to intersect the south lode, which has been cut here, but not opened on, although it has produced some stones of tin. From this engine-shaft, on the south lode, Messrs. Davey drove cross-cuts north in the 20, 30, and 40 fm. levels, to explore the northern lodes; these cross-cuts, however, were not successful in opening out the lodes, for they happened to be most driven in the great cross-course, which I have already referred to as traversing the Tolguese and Wheal Uny sett (under Redruth Church). This cross-course is a great broken channel of ground, 20 fms. in width, in which the lodes are knocked to pieces. In these cross-cuts north the two already mentioned—the middle lode and Barncoose lode—were cut, but scarcely opened on, by Messrs. Davey. The middle lode was opened on by the old party in the 30 cross-cut north for a couple of fathoms east, but it was found split up. The present party have driven cuts north the two already mentioned—the middle lode and Barncoose lode—were cut, but scarcely opened on, by Messrs. Davey. The middle lode was opened on by the old party in the 30 cross-cut north for a couple of fathoms east, but it was found split up The present party have driven a cross-cut north to it from the south lode in the 40, from a point 50 fms. east of the shaft, so as to be well clear of the cross-course; this cross-cut intersected the lode in 22 fms. driving, which has been opened on 6 fms. west and 65 fms. cast. In the present eastern end the lode is split, but it has produced some good work for tin, and, on the whole, is a strong lode, averaging 3 feet wide. As it only underlies 2 feet in a fathom, while the south lode underlies 4½ feet, the latter is fast overtaking it in depth; this however, is not the only point at which this lode has been opened on. It has also been explored from the eastern shaft, which is 105 fms. east of the engine-shaft; this eastern shaft is sunk perpendicular to 14 fms. below surface (the adit is 20 fms. deep), and below on the course of the lode: from it a level has been opened in the 18, which has been driven east about 54 fms. on a large and promising lode for copper. The shaft is now down 37 fms. below adit, and is sinking on a lode producing good work for tin, valued at from 15L to 20L per fm. for the length of the shaft; in another 10 fms. sinking it is expected to hole to the 40, driving east from the cross-cut already referred to: this 40 end is now about 15 fms. ahead of the shaft. The workings on the Barncoose lode are from the new or flat-rod shaft, which has been sunk entirely by the present party; this shaft is about 60 fms. to the north, and the same distance to the west of the engine-shaft: it is sunk perpendicular to the 30 below adit (which comes in 10 or 12 fms. deep), and below that on the course of the lode, underlying north 2 ft. per fm., to the 66. This Barncoose lode—I believe there is no doubt that it is the same as the Barncoose lode in Carn Br bottom this lode is in three branches, with lodey stuff between. The pumping-engine on the engine-shaft is a 50-inch working and 10-inch pole in the 30, and a 9-inch bucket; it draws a line of flat-rods to the new or flat-rod shaft, working a 9-inch pole and a 9-inch bucket: the water from this shaft goes back to the engine-shaft in the 30. There is also a 92-inch white on the price. The tim is stamped and dressed at some a 22-inch whim on the mine. The tin is stamped and dressed at some water-stamps to the west of Redruth, belonging to the East Carn Brea adventurers. The drawing is by a skip guided by wire-ropes. These are the main workings on this sett; but besides these there are two other points of some importance at the extreme north and south of the sett. The southern workings are from a shaft (sunk by Messrs. Davey) called the old engine-shaft, which is down 20 fms. perpendicular; this shaft is about 80 fms. south and 90 fms. east of the present engine-shaft; and from its bottom, the 20, a cross-cut is being extended south to cut one of the East Carn Brea north lodes, probably the engine lode, or the lode to the north still uncut. This cross-cut has been extended 20 fms. south of shaft, and has altogether gone through 22 fms. of elvan, without yet being through the course; the back of this elvan course is in East Carn Brea sett.

In the north part of the sett, to the north of the turnpike-road, is Moyle's shaft, down to the 46, on a very promising lode. The water is in this part of the mine at present, but an arrangement between the Union and Great South Tolgus adventurers is in contemplation, by which a cross from the latter mine, which is already extended some distance, may be continued up to unwater these workings. The tin is stamped

from the latter mine, which is already extended some distance, they be continued up to unwater these workings.

From these particulars (and to make the position of the mine comprehensible, it is necessary to enter into the particulars) it will be seen that a considerable amount of shallow ground has been explored, as yet without result. It seems, indeed, as if a certain amount of depth were required here; and, consequently, the pushing down of the new flat-rod shaft is an excellent policy. The lode on which this shaft is sinking is undoubtedly the Paraceas lede of Cara Bree to which it is average similar. excellent policy. The lode on which this shaft is sinking is undoubtedly the Barncoose lode of Carn Brea, to which it is exactly similar. When we remember what this lode has done in Carn Brea—that it has yielded

all the profits given of late years, and that it was explored for many years before it was found productive—we can best appreciate its importance in Wheal Union. The greatest prospects for copper discoveries would appear to be going east, in the parallel of East Carn Brea. Here we may con-fidently anticipate that a copper mine will ultimately be opened out. The fidently anticipate that a copper mine will ultimately be opened out. The more one sees of the resources of this great district the more we become convinced of the value of a piece of virgin ground in it, in which adventurers may expect to reap all fruits of all discoveries. The result of the bottom level in East Carn Brea has best shown the unfounded nature of those theories which assumed that because that mine made rich shallow the ore would necessarily fail ston; it was a mere theoretical assumption, and one which the experience of the best Cornish district does not favour. Of course, all bunches of ore end somewhere, but there is no reason why a good lode in this district should not make as deep as any found in others.

Among young mines which are looking up I may refer to one in the Gwinear district—ROSEWARNE CONSOLS,—full particulars of the position and prospects of which will appear in next week's Journal.

REPORT FROM NORTHUMBERLAND AND DURHAM.

May 15.-There has been a slight improvement in the Coal Trade this MAY 10.—There has been a slight improvement in the Coal Trade this week. At the same time, some collieries are doing very little indeed. The collieries in the Northumberland steam-coal district have been very slack this year, until last week. The Newsham New Pit is now working night and day. The Delaval New Colliery is also doing very well. They are getting on very slowly with the sinking at Bedlington New Pit, on account of the quantity of water to contend with. The Cowpen and North Seaton Companies (amalgamated) intend sinking a pit at Cambols, situated account of the quantity of water to contend with. The Cowpen and North Seaton Companies (amalgamated) intend sinking a pit at Cambois, situated between North Seaton and Cowpen. The Blyth and Tyne Railway Company are about to commence with the new line from Holywell Station to Newcastle. The collieries on the Wear are also in a very depressed condition, most of the Marchioness of Londonderry's pits only working five or six days in the fortnight. The Earl of Durham's collieries are working about nine days in the fortnight. A circular has been issued to the colliery owners of this district, by the secretary to the Coal Trade Association, in reference to the Circular to the trade which was issued by the general committee, under date March 18, calling moon the shippers of

six days in the fortnight. The Earl of Durham's collieries are working about nine days in the fortnight. A circular has been issued to the colliery owners of this district, by the secretary to the Coal Trade Association, in reference to the Circular to the trade which was issued by the general committee, under date March 18, calling pon the shippers of coals, and more especially these shipping to the London market to curtail their shipments until May 1; and attention is again respectfully draw to the state of that market. He for the collection of the Coal Trade topon the protection of the collection of the Coal Trade, collection of the collection of the Coal Trade, collection of the Coal Trade, collection of the coll Trade, received from Mr. Thomas beneficiary, of which the following is an abstract—It would be understood to collection of the collection of th the majority of the miners wish it to take, and as the information we possess at present concerning the National Association is unsatisfactory, we, the miners, establish a relief fund without reference to those parties. The motion was carried, and a committee appointed to carry out the resolution. It was resolved that the general rules drawn out by the committee should include only permanent disablement and fatal accidents. It was intimated that each colliery would have the power of making bye-laws in addition to the general rules, and deciding their individual cases, permanent disablement to commence at the end of six months. It was resolved that the next delegate meeting be held at Durham, and that there be two general meetings—one in the neighbourhood of Durham for that county, and the other at Newcastle for Northumberland. Several fatal and other accidents have occurred in this district lately, showing the necessity of adopting some permanent measure at once for giving relief in such cases.

REPORT FROM NORTH AND SOUTH STAFFORDSHIRE.

Max 15.—The Iron Trade is quiet, but, on the whole, there is a fair amount of business doing, although there can be no doubt that a good on incommenters are accepting rates under the official list for iron of pretty d quality. There are fully as many orders in the market, and a few being given out, for the United States, although the number is very

good quanty. Interest and the states, although the number is very small as compared with the quantity sent there before civil war and hostile import duties all but destroyed the trade. For plates and sheets there is a fair demand. Welsh bars are delivered in the district at \$1.16s., and are used to a considerable extent for hurdles and similar purposes. Probably the works in South Staffordshire are on an average making quite four days a week. In North Staffordshire there is rather more doing than in the South, but the trade in that part of the county is by no means active. The Hardware Trades of Birmingham and South Staffordshire generally continue, on the whole, dull. There are exceptions, one of these being the manufacture of fire-arms, for which the demand continues active. Some improvement has been experienced in the demand for railway fittings, whilst in some cases the tin and japan trades, for which this is ordinarily a duli season, are rather batter. The manufacturers of superior qualities of locks are generally well employed, and in some cases are busy, but many of the Willenhall makers of the commoner sorts are not much more than half employed. The show made in the International Exhibition by the productions of Birmingham and South Staffordshire naturally excites considerable interest. It is unfortunate that most of the articles published on the subject in the local papers, whilst they display various grades of composition, and some give readable dissertations on the history of the manufactures to which they relate—pleasant summaries of encyclopedic articles—they are deficient in special knowledge of the subjects to which they are deviced, and afford no comparative estimate of the productions of 1862 and 1851, or of the merits of British as compared with foreign bandwares. It is certainly difficult to secure trustworthy comparisons of these kinds, but, as the manufacturers and merchants visit and examine the various specimens with such an acquaintance as will enable them to appreciate their

real merits, and to institute that comparison for which it is the special object of the Exhibition to afford an opportunity, a few estimates on these important points may be made. All accounts endorse the complaint previously made, that most inadequate provision has been made for the exhibition of the various productions of the district which lies between Birmingham and Wolverhampton. The articles made in the workshops of on has been made for the exhibition of the various productions of the district which between Birmingham and Wolverhampton. The articles made in the workshops of locality are of almost innumerable variety, and many, as metal bedsteads, gasnas, baths, and other articles in Japanned goods, are of considerable size. The space ted is totally inadequate to anything like a fair display of these productions. The semer iron and steel shown already attracts considerable attention here, and the units of the successful application of his process at sheffield are gradually dissipating prejudice which the failure of some of the first attempts excited in South Stafforde. It is not improbable that the process may shortly be employed in that part of county.

accounts of the successful application of the first attempts excited in South Standardshire. It is not improbable that the process may shortly be employed in that part of this county.

So far, no ironworks in Staffordshire have been rendered capable of rolling the thick plates required for protecting the sides of navai ships; but it is understood that at least one of the leading firms in the district are seriously considering the question of erecting suitable machinery for this purpose. The uncertainty, however, as to the kind of plates which will be ultimately adopted—whether sold masses of iron b, 12, or even 18 inches thick, or successive layers of places of a moderate thickness, as some suggest, with intervening layers of yielding substances—checks such undertakings. It is natural that owners of capital should hesitate before expending many thousands of pounds in preparations, while the nature of the ultimate wants of the navai authorities of the various maritime States remain so uncertain. Our American cousins appear likely to demonstrate in actual conflict the best modus which attack and defence can adopt.

The replies of the Inapectors of Mines to the questions submitted to them by the Secretary of State on the subject of shafts, and especially of double shafts, in mines, will, no doubt, be fully dwell on by the Mining Journal. It is satisfactory that both in North and South Staffordshire so few instances exist in which mines are worked by sincle shafts, and that as little difficulty would be experienced in seeing this great element of safety adopted in all cases.

The National Association for the Relief of British Miners is attracting the attention of the miners in this county. On Tuesday evening Mr. W. H. Miller, who is conspicuous as a leader of the miners in cases of strike, addressed a large out-door meeting at West Bromwich, to whom he explained the nature of the new association, and strongly recommended them to support if. Mr. Miller announced that the was about to form a local association, and to

REPORT FROM YORKSHIRE, DERBYSHIRE, AND LANCASHIRE.

MAY 15.—There appears to be little prospect of any immediate improvement in the Iron Trade, although many persons contend that recent wents which have occurred in America will have the effect of shortening events which have occurred in America will have the effect of shortening the period of war. A greater depression than that now existing was never known, and iron was never purchased at a cheaper rate. There is a tolerably good enquiry for rails and plates, but in all other departments little or nothing is doing. The Coal Trade exhibits the same dulness as last reported, but many are sangulue that an inprovement will be experienced next month, when the metropolitan merchants order for autumn and winter stocks. The London market is reported here to have been greatly over-stocked last season, and this is laid down as one reason for the panelty in the demand this last winter. We have a good demand for coal for gas and marine and locomotive purposes. The depression in the cotton districts, which is ankering so much attention in the country, is taking less than one-half of its customary supplies, and this, coupled with the remarkable openness of the weather, has occasioned the great depression which now prevails, and which, unhappily, is likely to continue.

An accident of a severe nature, which ought to be a caution to miners, occurred at the

districts, which is ankering so much attention in the country, is taking less than one-half of its customary supplies, and this, coupled with the remarkable openness of the wenther, has occasioned the great depression which now prevails, and which, unbappily, is likely to continue.

An accident of a severe nature, which ought to be a caution to miners, occurred at the Brasaington Oid Lead Mine, on Tucsday. A party of miners had ascended the shaft, and were sitting in the "coe," when either a spark from a pipe, or the snuff of a candle, ignited a bag of guapowder, which blew off the roof of the building, and dreadfully injured all the four men who were in it, but, fortunately, mone of them have died.

A strike has taken place at the Cinder Hill Pits, near Nottingham, and on Tucsday a meeting of miners took place at the Broad Oak Field, Cinder Hill, to consider the recent reduction of wages. It was stated by the different speakers that the wages had been reduced 6½d, per ton within the last 15 months, and now the men had received notice of a further reduction of 4d, per ton, 128 lbs. to the cwt., and 27 cwts. to the ton, making I ton 10 cwts. 3 grs. 12 lbs. for the ton, at 112 lbs. for I cwt. The men resolved to ask for 3d, per ton advance, and that they should have a machineman to see that justice was done between employer and employed, and thay determined not to return to work until these requirements had been couplied with.

Mr. Thomas Shaw, of the Haughton Green Collery, Denton, has been summoned by Mr. Dickinson, inspector of Coal Mines, with neglecting to provide sufficient ventilation, and omitting to provide a sufficient number of safety-ismps. Mr. Shaw was fined 20l. in all, and the costs.

The progress making in the lead mining interest is slow, and little worthy of notice has been done since our last. On Wednesday Mr. Petherick, the eminent mining engineer, who was appointed to arbitrate in the actions between the Mill Dam Company and the Great Wickiow Company, visited Great Hucklow on Wednesday, and i

The rederal, Dutch, and other foreign Governments are now in the South Staffordshire markets enquiringfor what, it appears, cannot be supplied to them in that quarter-armour piates for ships of war. The general demand is for 4½-inch plates; but it seems the Federal Government are looking out for plates of a much less thickness.

Mr. John B. Pope, of the Haigh Moor Collieries, near Leeds, has just applied for letters platest for an invention of "Improvements in apparatus for lowering and loading coals, minerals, or other substances." This invention is considered exceedingly ingenious, and when the patent is secure I will give you some descriptive details.

REPORT FROM MONMOUTH AND SOUTH WALES.

MAY 15.—The Coal and Iron statistics lately issued, and the meetings recently held, conclusively prove that both the staple trades of the district are gradually improving. Although a great depression still exists, yet everyone feels convinced that ultimately the demand for all kinds of mineeveryone feels convinced that ultimately the demand for all kinds of mine-rals and metals will be so great that it will fully repay the loss which em-ployers are now subjected to in keeping their works going. Imbued with this conviction, the public boards that control the different ports of South Wales are sparing neither time or money in extending their aiready unusual facilities, and making every preparation for the reception of an increased trace. The Lianelly Harbour Com-missioners are actively engaged in adopting the necessary measures in order that ves-sels of a larger tonnage than have hitherto visited the port may enter with safety. For the purpose of carrying out these desirable improvements, and for the discharge of ex-isting liabilities, a loan of 10,000. Is contemplated. This speaks well of the foresight and commercial enterprise of the Lianelly Harbour Commissioners. There is also a pro-mising future in store for Newport. The West Midand Company are now applicate. the purpose of carrying out these desirable improvements, and for the discharge of existing inbilities, a ionn of 10,6004, is contemplated. This speaks well of the foresight and commercial enterprise of the Lianeily Harbour Commissioners. There is also a promising future in store for Newport. The West Midland Company are now applying to Parliament for complete running powers over the Monamouthshire line, and also for power to build a new station and other alterations and extensions at Newport. This will involve an outlay of about 130,0004. It is expected that the bill will be passed, with a few slight alterations; and there cannot be a doubt as to the ultimate results that will follow such a measure. The West Midland appear determined to make Newport their sea terminus, and a large increase of trade, especially imports, will necessarily follow. The Newport Dock Company support the bill, and are prepared to render every facility to shippers from the Midland Counties, and other districts which the West Midland traverses. The half-yearly meeting of this body was held on Thursday, Mr. Samuel Homfray in the chair. The revenue for the half-year ending Dcc. 31, 1861, amounted to 8919, 2s. 1d., being an increase of 21331, 16s. 3d., as compared with the previous half-year. Reference was made to the Abertare branch of the West Midland, which would open up the whole of that vast and rich iron and coal district to Newport, which had not hitherto been the case. The Chairman assured the shareholders that the Dock Company were prepared to give every assistance in their power to increase the trade of the port by means of this important new line. Cardiff continues to stand at the head of the coal and iron ports of South Wales. The returns for the month of April are as satisfactory as might be expected, especially as regards iron, a large increase being manifested on this had. The coal exported was 111,668 tons, and 13,630 tons of iron. There were also exported during April 4857 tons of patent fuel, 872 tons of the manuel to the

There is nothing new to report as regards the coal and ironworks of the district for the past week. The Coal Trade remains about the same, while a steady improvement is perceptible in the Iron Trade.

The present session of Parliament promises to be a fruitful one as to increased railway accommodation for the district. Two new committees of the Commons have been named for consideration of the following bills:—Brecon and Merthyr Railway; Briton Ferry Dock and Railway; Dare Valley; Hereford, Hay and Brecon; Lianelly Railway and Dock; Mid-Wales and Manchester and Milford; Swansea Harbour Trust; Swansea and Neath; Camarsthen and Cardigan; Cowbridge, Railway; and Merthyr, Trodegar, and Abergavenny Railway. It is quite evident that if all these bills should become haw, and no doubt the majority of them will, a vast development of the mineral riches of Wales will necessarily follow. It is cheering, especially so at the present time, to witness such certain indications of a prosperous future for South Wales.

On Saturday last an inquest was held at Dowlals, before Mr. Overton, the coroner, on the body of Morgan Davies, aged 13 years. Deceased met with his death through one of the trams being upset, and failing upon him. The jury returned a verdict of "Accidental Death."

idental Death."

The hearing of the charge of conspiracy brought against Messrs. Thomas, Pughesley, and Rees, by the Gadlys Iron Company, has been again adjourned, and it is rumoured that no further steps will be taken in the matter.

Mr. E. W. Blake, of New Haven, United States, has detected the exist-

THE INTERNATIONAL EXHIBITION-1861

The past week has been a dull one at the Exhibition, the make visitors having been exceedingly small, with the exception of large when they were more numerous than on any other day since the We doubt not that the unfavourable weather has been the count of We doubt not that the uniavournote weather. The book me cand at the warm, genial, balmy atmosphere of the previous week large succeeded by easterly winds and cold drenching rains during the rain just passed. Monday next will, however, bring an increase, in spine Just passed. Another her than the price of admission will then be reduced from it that thus opening the portals of the building to a class of people who hitherto been unable to pay the high rates charged for admission is coordance with our promise last week, we now give an account of many than the property of the pro

cordance with our promise last week, we now give an account of me the exhibitions in iron.

Messrs. Moore and Manby, of Dudley, and Billiter-sque, last exhibit a large case, containing a great variety of sections of Rolates numbering upwards of 1000 pieces, all of different size, they forms, suitable for engineering, ship-building, and almost everyoken pose for which iron can be used. Iron made into chains, and must prove the property of the provided of 164, 26, 394, and 534 tons, without breaking. Boler-hast strain of 164, 26, 394, and 534 tons, without breaking. Boler-hast could be suited by the same process, requiring a power equal to 24 tons per inch longway, and 22 tons per square inch crossway of the fire, mis can be broken; also Boiler-Plates and sheets flanged, and be the last cold every way of the grain; 2-inch Round Iron, and several scales. can be broken; also Boiler-Plates and sneets stanged, and best is a cold every way of the grain; 2-inch Round Iron, and several scalars tied cold into double knots, with ram's-horn test at one end sed as down fine at the other to form a corkscrew. Deep Stampel invaform a flat sheet, and in each case worked cold into various slave, being the Bloom, and made specially for rifle and gun-barrels, bright in the Bloom, and made specially for rifle and gun-barrels, bright in the Bloom, and made specially for rifle and gun-barrels, bright in the Bloom, and made specially for rifle and gun-barrels, bright in the Bloom, and made specially for rifle and gun-barrels, bright in the Bloom. very heavy steam-hammer in order to show the fracture, and grow the side to show the clearness and cleaness of texture; also a ports 3-inch armour-plate which was tested at Shoeburyness, receiving the the side to snow the vector which was tested at Shoeburyness, receiving the of a 40-lb. shot from a distance of 100 yards without showing ure of cracking. Trade Marks are also exhibited. Messrs. Hum, has and Hardy, near Bradford, Yorkshire, make an extensive exhibited manufactured at the Low Moor Works; also the Coal, Coke, Inne (both raw and calcined), Limestone, and other meterials from which iron is made. Pig-Iron of three different qualities, used respects. No. 1 for small machine castings; No. 2 for heavy machinery; No. 5 forge purposes. Refined Iron—Puddled iron, specially adapted for his plates, showing the fracture; also another section, adapted for risk wheel-tyres. Chain Iron, several specimens of which are best out to the chain of the metal; wide No. 1 for small.

Refined Iron—small specimens of which are best wheel-tyres. Chain Iron, several specimens of which are best wheel-tyres. verious ways to show the toughness and strength of the metal; and specimens bent cold for the purpose of showing the fibre. Bolled bent cold, with shorn edge on each side; others doubled when het me their pliability in working; several specimens punched near the algebraic showing the original size of the holes; and another punched eigendle way: several pieces with knots tied cold. Octagon Bars 2] index a way: several pieces with knots tied cold. Octagon Bars 2j index, holes punched from 7 to 10 inches diameter, with original size of his cach end of the bar. Tyre Bars broken to show the grain, and as flanged inside and outside when cold. Bar 4 inches square doubled cold; another 31 inches, also doubled when cold. Crank Iron serais cimens. Sections of "Alton and Fernies" thick-edge plans; turnings of cast-iron; specimen of rifled grooves in muzzle of an old 32-pounder gun; bars of iron broken in testing-machine; portions that plates dished and flanged in various ways to show the ductility and sen of the iron; table-top with edges unshorn, rolled from an ording a ltogether this collection is most interesting, and will amply the trouble of an hour's inspection. In the Journal of April 26 we man the double-throw Crank manufactured by the Mersey Stele and Irol pany, and exhibited in Class I., No. 225, which weighs very nearly 25. pany, and exhibited in Class I., No. 225, which weighs very nearly sin We now find that this extraordinary forging was made for Messr. I. It and Son, of Greenwich, for an engine of 1350-horse power (which believe to be the largest ever constructed), and is intended in MAJESTY's new iron-clad steam-ram, Northumberland. The Moskin Iron Company, of Leeds, No. 232, Class I., exhibit some Raisey & riage and Locomotive Axles; also combined 100 and Steel Tyes at Some purposes. The refined Iron and Steel Tyes at Some purposes.

MAJESTY's new iron-clad steam-ram, Northumberland. In about Iron Company, of Leeds, No. 232, Class I., exhibit some Rallwy riage and Locomotive Axles; also combined Iron and Steal Tyre is same purposes—the refined Iron and Ironstone in its raw state from these articles are made. Messrs. TAYLOR BROTHERS, of the Class I. Ironworks, Leeds, have some specimens of Iron made for the Arms gun; Locomotive Shafts and Tyres, also pieces of tyre best cold in its tenacity and ductility; and another piece bent cold, and then loud the bend for the purpose of showing the grain.

Messrs. BOLCKAW and VAUGHAN, of Middlesbro'-on-Tee, York and 38, Dowgate-hill, London (No. 31, Class I.), make a very cashow of specimens from raw and manufactured material, common with the coal, coke, and ironstone from their collicries and iron event woordield, Whitelee, West Auckland, and Shiddon Logg; important of the coal, coke, and ironstone from their collicries and iron event woordield, Whitelee, West Auckland, and Shiddon Logg; important of the coal, coke, and ironstone from their collicries and iron event works at Middlesbro', Whitton Park, and Cleaveland; they inches and refined iron, rails, wide bars broken cold to show the file, plates of several descriptions. No. 1, requiring a mean breating with the coal, to the company of the foregoing, they have a very pratimodel of several descriptions. Park of the South-Easten Research and the state of the state of the state of the state of the company. In addition to the foregoing, they have a very pratimodel of an expanding core bar, from which pipes can be east just diameter, and any size larger; this core bar was patented by Mr. 7. We of Middlesbro', June 29, 1859 (No. 1546).

The Weardale Iron Company, of the Tow Law Ironwois, and lington, Thadoe Ironworks, Ferry Hill, and White Lion What, Ironwois, and the state of the state of

sborough; these include five different qualities of pg. iron. Sections of forged iron, bent cold, and broken to less a piece of a grane chest. ture; also a piece of a crane chain manufactured from the Hawks, Crawshay, and Sons. This chain was tested and a strain of 12½ tons before it broke, the regulation strain being a coording to the coordinate of t strain of 12½ tons before it broke, the regulation strain tensor according to the rules of the Board of Admiralty. Last week with and since then they have forwarded for exhibition a very much lection; we shall, therefore, now proceed to give a description dissented in ext week further remarks upon iron. This is no set to the contributions require a very minute inspection. necessary, as the contributions require a very minute inspector, great deal of explanation from the makers. We intend, however, tinuing the subject, and shall probably commence our next with a set tion of the iron manufactured at the Earl of Dadley's Round Landon of the converse.

reference, then, to the specimens of Alum ay state that aluminium Messrs Bell Brothers, we may state that annual vered in 1827, by Wöhler, but it was then only obtained in grey powder, and the discovery remained in this state using the state of the stat grey powder, and the discovery remained in Deville, by improved processes, succeeded in bripresent state of usefulness. Bell Brothers should be a succeeded in the present state of usefulness. present state of usefulness. Bell Brothers show an aluminate of soda, containing 48 per cent. of alumina alumina, double chloride of aluminium and sodium, fit is obtained by fusion with sodium—sodium, the metalli ingots of pure aluminium. The large centre object is Charles I. finding his standard-bearer dead after the it stands on a handsome pedestal of Sienna marble. (it stands on a handsome pedestal of Sienna marble. (it stands on a challing Halmet which we nectical bet week, and it stands on a handsome pedestal of Sienna marble. On is the Cellina Helmot, which we noticed last week, and on a mericled with is the Cellina Helmet, which we noticed last week, and one piece of aluminium and aluminium bronze, encircled with the tion of Faith, Hope, and Charity. Faith, on the right had presented by an angel in a reclining position, with a crost pleft hand side, is another angel, also reclining against the piece, holding an anchor; and Charity surmounts the whole, another angel just in the act of taking into its arms what we meant for a destitute child. At the foot of these are exhibited. of exce

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goes, sextant, portable barometer, opera-glasses, thin wire-leaf, large if exceedingly thin substance, twisted ingots, &c., all made of alumin. These show respectively the lightness, ductility, and malleability the metal: There is also a piece of aluminium placed in a solution using sulphur (the substance in the atmosphere that tarnishes silver). the same vessel, too, is placed a piece of silver, and this is blackened be same treatment, which is without effect upon the aluminium. Respectives of lace-work, and several other specimens in aluminium, are shows, to represent the various uses to which it may be applied. sers. Bell Brothers also exhibit, in Class XXXIII. (No. 6604), two aps-Falcon and Grouse, and Gorged Falcon: each of these groups Falcon and Grouse, and Gorged Falcon: each of these groups in one piece of metal.

ist in one piece of metal.

Class XIII., we noticed some very beautiful little Hydrometers, consted upon Sykes's principle (such as are used by the Customs and see officers for testing spirits), manufactured by Mr. Thomas Bass, of per East Smithfield, Tower-hill.

NEW AND ECONOMIC PUMPS.

NEW AND ECONOMIC PUMPS.

Iso distinct inventions for improvements in pumps are at present being niecd, principally for marine purposes, by Messrs. Warden and Co. saniagham's patent self-reefing topsails), of New London-street, and grat power and economy are claimed for them, we may take the opnaity of describing their principles. The first is a double acting succept, the second a diaphragm-valve suction-pump, and both are well mated to succeed for the purposes for which they are intended; both light a good quantity of water with a moderate power, and each has secommendation.

is the double-action pump the cylinder consists of a V-shaped trough, is the double-action pump the cylinder consists of a V-shaped trough, which an inverted A-shaped trough works. In the centre of the first-med trough there is an orifice to which the suction-pipe is attached, such fee being covered by two oblique partitions of a form to fit the V and inverted A. In these partitions are valves opening outward, and corporating with the fixed valve of the ordinary pumps. At each extressor the inverted A, there is also a valve opening outwards, whence it he seen that by giving a to-and-fro motion to the inverted A, a consult flow of water will be obtained, each end of the cylinder in turn being the pumping chamber. After the pump has been at work some is, the several parts of the cylinder become well ground in, and fit so analey, that the working of it appears to be absolutely improved by x. No packing whatever is required, and yet the water raised is said equal 55 per cent. of that which admeasurement would show to be able of being contained within the cylinder in any given number of simple, not liable to choke, or get out of order; the working parts can be got at without removing bolt, nut, pin, or screw; repairs are scarcely are required; and the frictional surfaces being plain, solid metal the mass are always ready for either constant or occasional work. In the second, or diaphragm pump, the water is raised by the rise and for a diaphragm made flavishe by any satisfulle means. the double-action pump the cylinder consists of a V-shaped trough

me are always ready for either constant or occasional work. In the second, or diaphragm pump, the water is raised by the rise and lof a diaphragm made flexible by any suitable means, a valve being sed in the centre of such diaphragm, which covers the chamber in which so diaphragh with which the pumping power may be augmented without insign the length of stroke, and by simply enlarging the flexible diaphragm by are very portable and easily fixed. The diaphragm is composed of fixible material of special manufacture, and will stand a prussure of blbs to the square in, or more if required, and is not affected whether it wet or dry, and may be used for pumping hot water. This pump is pt wet or dry, and may be used for pumping hot water. This pump is nicularly adapted for contractors work, and is invaluable for ships' use, well as for fire-engines and force-pumps generally.

FOREIGN MINING AND METALLURGY.

FOREIGN MINING AND METALLURGY.

The official tables of Belgian imports and exports show that, as regards the increased deliveries to France have largely compensated for the misshed demand in the direction of Germany. The exportation of the misshed demand in the direction of Germany. The exportation of the misshed demand in the direction of Germany. The exportation of the misshed demand in the direction of Germany. The exportation of the exportation of iron minerals has been competition. The mease in the exportation of iron minerals has been compensated for—fere more than compensated for—by the importations proceeding from the Grand sky of Laxambours, which reached a total during the first three months of the year light tons. During the past week the administration of the Belgian state lines proceeding the past week the administration of the Belgian state lines proceeding to a contract for the supply of 1200 10-ton wagons. The sois industrial establishments maintained approximately the prices which they offered he teasified to the past of the maintained approximately the prices which they offered he wakes since. Each truck completely monated costs 91. to 936, each, and this price he teasified to the light of the prices which they offered he wakes since. Each truck completely monated costs 91. to 936, each, and this price he teasified to high taking into account the fact that the administration of the Easten of the Market of the Complete of the supply of the supply of the prices of iron remain without alteration, at there is less demand for hummered and beaten descriptions. A new sit, with regard to the conveyance of coal and coke, on the system of the Eastern of the Baskern of the Baskern of the Eastern of the Eastern

sk great turntables.

The Nouvelle Montagne (Belgian) Company has fixed its dividend for 55 at 22, per whole share, and 8s. per fifth share. The Turlupu Colliery supany has also declared a dividend of 8s. per share, and the same saw will be divided by the Bois Colliery Company (Quaregnon) in respect to the first half of 1861. The Good Hope Colliery Company (workings at Montigny-surshine, near Charlerol) publishes the results of its operations monthly: thus, in April, 188 tons dewer raised, the extraction involving an outlay of 2977., the expense massor, commissions on sale, &c., were 2107.; the general expenses were 1984.; the specific sinvolved a charge for the month of \$200.; and the proceeds of the colling three months having been 30561, it follows that the total profits realized this year forms of \$300.

the three months having been 30561, it follows that the think of the foreign April 30 were 39621.

There is no favourable change to report in the situation of the foreign deine while great feebleness is apparent. There is no favourable change to report in the situation of the foreign sper market, little business being doing, while great feebleness is apparent brices. At Paris some lots of Chilian have changed hands at 88L per a least state of the species of the state of the species of

1861 was 916,964 tons, as compared with 730,224 tons in 1860, showing an argmentation last year of 186,740 tons, or about 25 per cent. In the quantity conveyed was 645,214 tons, and consequently the traffic has increased as a search of the company receives a search of the company receives as a search of the company receives coals as a carried last year of the other years. The mean distance over which each ton of an early are company receives coals as the frait, these of the first. Thus the coals of the North of France reach it by Rheims as frait and those of the district known as the Centre by Montereau, Gray, and sembour; and those of the district known as the Centre by Montereau, Gray, and assequently secures all the traffic proceeding from that locality.

The second of the company's Mullionus line traverses the Ronchamp coal basin, and We must endeavour to find space for another paragraph on M. Petitad arrived when we last referred to the subject at the Sierra Almagrera, James, when we last referred to the subject at the Sierra Almagrera, James, when we hast referred to the subject at the Sierra Almagrera, James, when we hast referred to traverses which they had both remarked on the sierra, company, and they of your district of the Sierra company, and they of your district of the Virgen del Carmen Company, and soon created one of the

most flourishing districts on the Mediterranean shores. The ardour which had been displayed in the workings of the Slerra de Gador was reproduced to the full extent on the Slerra Almagrera, the same marvellous results were obtained, and the same shamelessness of speculation was manifested. An almost indefinite number of companies, hypothecating their success on the smallest rock covered with an ocreish tint, were formed, and stock jobbing made more fortunes than the minerals of the district, rich as they undubtedly were. The Sierra is situated on the confines of the province of Murcia and those of Alméria, to which it belongs, and it is isolated from the surrounding mountainous chains, its length being 6 to 8 miles, on a width of 3% miles, and it fails towards the sea in the direction of Villaricos. Mica schiats form its constituent part, and on the cast side are found enormous ferruginous masses, which have been sought to be worked concurrently with others of the same nature in the Sierra Cabrera. Some small veins of copper are met with in enclosing rocks, and silvery lead-bearing veins also attract attention. There are not here heaps of mineral entangled with each other, as in the mountains of Gador, Lujar, and Contraviesa, but there are veins, or rather a single voin, the bifurcation of which towards the south forms two distinct groups. The principal vein, the Jaroso, is represented by the mines of Las Animas, Observacion, Virgen del Carmen, La Diosa, Salcoda, Virgen del Mar, Estrells, &c. It is sensibly directed from the north to the south, inclining about 70° to the east. The second group is characterised by the mines of san Gabriel, and others; it follows the same direction as the first, to which it unites itself towards the south, its inclination being 40° to 45° towards the east. There is a third group, known by the name of the Reyla, the vein of which, far less valuable, is independent of the first. The really useful surface of this mining centre embraces at the most about three square miles, and this

REPORT ON THE METALLIFEROUS DEPOSITS OF KUMAON AND GURH-WAL, IN NORTH-WESTERN INDIA.—The following is an extract from the report of Mr. W. J. Henwood, F.G.S.:—

report of Mr. W. J. Henwood, F.G.S.:—

"As so little has been done on this formation, and that little scarcely directed to the determination of the points of economic importance, nothing certain can be yet stated regarding the extent of this deposit." . . "Assuredly enough has not been yet ascertained respecting the iron ores of the Bhabur to warrant any expensive experiment on them, but we saw sufficient to convince us that the district was worthy of further examination. A fact of some significance is, however, that but few and trifling traces of the labours of native iron smelters occur in any part of it, although they are numerous enough in every other mining field we have examined in these provinces."

"Limestone is quarried for use within four or five miles of Huldwance; water-power to aimost an unlimited amount may be obtained in the immediate neighbourhood, and fuel sufficient for experimental purposes during, perhaps, sever years, is at hand; but the district does not afford enough for the supply of a large blast-fornace. During the cold season the climate is a healthy one, but as the heat and rain approach it is disagrecousing an advances."

GEOLOGICAL SOCIETY OF LONDON.—May 7—Prof. A. C. Ramsay, President, in the chair. The Rev. R. Stopford Brooke, Fern Lodge, Campden-hill, Kensington; Henry Francis Blanford, late of the Geol. Surv. India; Edward Fitton, Gloucester-crescent, Westbourne-terrace; Frederick Hill, Penhellis, Helston, Cornwail; John Langley King, Wells-street, London; and Charles Rogers, Beaufoy-square, Maida-vale, were elected Feliows. The following communications were read:—
1.—"Note respecting the Discovery of a new and large Labyrinthodont (Loxomma Allmani, Huxley) in the Gilmerton Ironstone of the Edinburgh Coal Field; "by Prof. T. H. Huxley, F.R.S., See. G.S. Looking over the vertebrate lossils from Burdle House and Gilmerton in the University Museum, Edinburgh, Prof. Huxley came upon some reptilian specimens—a fragment of the hinder part of the upper wall of a cranium and some sternal plates of a Labyrinthodont, which, from the obliquity of its orbits, he names Loxomma. The skull would be about 14 inches long if perfect; and the animal about 6 or 7 feet.

Loromma. The skull would be about 14 inches long it persec; man use all the about 14 forces of creat.

2.—" Note on a new Labyrinthodont (Pholidogaster pisciformis, Huxley) from the from the Edinburgh Coal Field;" by Prof. T. H. Huxley, F.R.S., Sec. G.S. The specimen on which this new form has been determined was placed in the British Museum by Sir P. Egerton and Lord Enniskillien, who recognised it as reptilian. Mr. Davis, of the British Museum, drow Mr. Huxley's attention to it as being probably Archegosaurian. It is not well preserved, but on careful study proves to be an amphibian ailled to Archegosaurus; differing, however, from it in the form of the head, the extent to which the ossification of the vertebral column has proceeded, and in the character of the dermal armour. This animal was about 44 inches long.

3.—"On the Land Flora of the Devonian Period in North-eastern America;" by J. W. Dawson, LL.D., F.G.S.

4.—"On some Upper Eccepte Fossils from the Isle of Wight;" by Prof. D. F. Sand-

W. Dawson, Ll.D., F.G.S.
4. — On some Upper Eccepe Fessils from the Isle of Wight;" by Prof. D. F. Sandberzer: in a letter to W. J. Hamilton, For. Sec. G.S.

berger: in a letter to W. J. Hamilton, For. Sec. G.S.
At the next meeting of the society, on May 21, the following papers will be read:
1. "On some Metamorphic Rocks in Banfishire and in East Sutherlandshire;" by Pr.
B. Harkness, F.R.S., F.G.S.—2. "On the Geology of the Gold Fields of Nova Scotia
by the Rev. D. Honeyman: Communicated by the President.—3. "On some Fos
Crustacea from the Lower Coal Measures of Nova Scotia; on Eurypierus; and on so
Tracks of Crustacea in the Lower Siturian Rocks;" by J. W. Salter, F.G.S.

PATENT SAFETY-FUSE.—Some improvements in safety-fuse have just been patented be Mr. Davey, of Tuckingmill, Camborne. The improvements consist in coating the fibrous material of which the fuse is parily composed with gutta percha or its compounds, caoutchouc, soft metal, or other suitable adhesive materials, and in the employment of wire in the manufacture of safety-fuse, either as a substitute for or in combination with fibrous materials, or as a substitute for or in combination with lead or other soft metal, and in the manufacture of pipes and tubes in combination with lead or other soft metal, and in the manufacture of pipes and tubes in combination with lead or other soft metal, gutta percha, caoutchouc, bitumen, or carthouwers.

or other soit metal, gutta percha, caontehouc, bitumen, or carthouware.

PURIFICATION OF COAL GAS.—Dr. Thomas Richardson, Newcastleon-Tyne, proposes to dissolve the burnt suiphur ore left as a waste product in the manufacture of sulphuric acid in muriatic acid, and evaporating the solution to dryness, or
to drying up the solution with sawdust, charcoal, small coke, gypaum, or the waste
burnt sulphur ore, or other oxide of iron ground to powder, and to employ these mixtures with lime or magnesia, in the usual way in the purification of gas.

tures with lime or magnesia, in the usual way in the purification of gas.

OBTAINING MOTIVE-POWER.—Mr. E. Taylor, Blackburn, propose to employ a number of weights placed upon a shaft or eccentric, and also a wheel which revolves and changes the position of the weights, the wheel having bowls on which the weights slide, so that as the positions of the weights are changed they gain their leverage and give effect to the wheel, and thus obtain the motive-power, which can be started and stopped, and also governed, by altering the position of the shaft or eccentric.

APPLICATION OF STEAM POWER.—Mr. J. Musgrave, Globe Works, Manchester, proposes an invention which consists in the application of two or more cylinders of small diameters placed in a vertical, horizontal, or diagonal position, and connected direct to a main driving-shaft, or to a second-motion shaft, thereby entirely dispensing with the large first-motion wheels, fir-wheels, large engine-house, and heavy foundations now required.

oundations now required.

IMPROVEMENTS IN WHEELS AND AXLES.—Messrs. Allott and Thel-wall, of Hull, provisionally specified some improvements in the manufacture of wheel tyres, hoops, and other similar articles. They produce two rings, composed each of a bar coiled in a helical form, the coils being in opposite directions, and the ends tapered off so as to leave an even face on the ends of the helix. One of these rings is fitted now welded under the steam-hammer, and then finished by rolling in the usual or any other suitable manner. The same gentlemen also propose some improvements in the manufacture of crank shafts and crank axies. The object of the invention is to make the grain of the ion follow the course of the crank and crank pin, in lieu of such grain being parallel to the grain of the shaft or axie, as is the case with cranks cut out of a soild forging. The crank its gradually forged out of the soild bar under the steam-hammer, the use of pressure and bending dies, and the application of end pressure on the shaft, being dispensed with: The same system of forging is equally applicable to the production of other bent articles wherein it is desirable to increase the strength by not disturbing the natural grain of the Iron.

Watter V. Steam.—By a letter from Paris we learn that M. Girard

WATER v. STEAM .- By a letter from Paris we learn that M. Girard WATER V. DIEAM.—By a letter from Paris we learn that M. Girard proposes to substitute water for steam in the production of motive power. M. Girard's machine skates over a railway with the greatest case, all that is necessary being to keep an infinitely thin layer of water beneath the skids; it is said that considerable weights, and even heavily-laden carts, can be propelled at a greater speed than by steam. The Emperor, Empress, and eminent men of every profession have witnessed the experiments, and it seems that the Emperor was so convinced of the advantages of the system that he has ordered a line to be laid down from Reuli to Bongival. We saspect the chief utility of the invention would be in descending heavy inclines.

MINE MACHINERY FOR SOUTH AUSTRALIA.-We understand that the clipper ship Murray, now loading in the London Docks, will take out some mining ma-chinery, manufactured by Messrs. Nicholls, Williams, and Co., of Tavistock, for South

THE HINDOSTAN COPPER COMPANY .- The directors, by the last mail, received advices to the effect that a portion of their staff, sent from England, had arrived at Calcutta. The manager at the works states that he was doing all in his power to prosecute the company's operations without delay.

MINING AND SMELTING GLOSSARY.—Now ready, price 2s., a New Edition, enlarged, of The English and Foreign Mining Glossary; to which is added the Smelting Terms used in France, Spain, and Germany. Published at the *Mining Journal* office, 26, Fleet-street, and may be obtained through all booksellers and newsmen.

"CORNISH NOTES."—The first edition of the "Notes made during a recent Tour in Cornwall and Devon," by Mr. J. Y. Watson, F.G.S., having been sold, a second edition, revised by the Author, has been printed, and copies, 1s. each, can be had of Messrs. Watson and Cuell, St. Michael'salley, Cornhill, or at the Mining Journal office, 26, Fleet-street, London.

ORIENTAL COMMERCIAL COMPANY.—A company with a capital of 200,000*l*., in shares of 20*l*. each, has recently been constituted under the Joint-Stock Companies Acts, with limited liability, for carrying on the business of commission merchants between this country and the Levant; and, from the earnest and concurrent co-operation which the promoters have recently in the various Levantic and decided success. and, from the earnest and concurrent co-operation which the promoters have met with in the various Levantine ports, rapid and decided success is regarded as certain. A large number of respectable shippers have promised to entrust the management of their interests to the company, and the manager—Mr. Demetrio Pappa—will also bring a large connection with him. Of the proposed capital upwards of 30,000*l*. has already been subscribed. The direction comprises gentlemen well known in connection with the Greek and Levant trade, and agencies have already been established in Greece, Salonica, Alexandria, Cairo, Beyrout, Amsterdam, Constantinople, Ibraila, and Galatz. It was originally intended to carry

on the company with shares of 100*l*. each, and the necessary steps are now being taken to alter the Articles of Association in this and certain other details. It is estimated that if the entire capital be subscribed not more than 5*l*. per share will require to be called up.

India Office.

BY ORDER OF THE SECRETARY OF STATE FOR INDIA IN COUNCIL, notice is hereby given that the DIRECTOR-CENERAL OF STORES FOR INDIA will be READY, on or before MONDAY, the 19th instant, to RECEIVE PROPOSALS in writing, scaled up, from such persons as may be willing to SUPFLY—

TIN and LITHARGE.
And that the conditions of the said contract may be had on application at the India Store Office, Cannon-row, Westminster, where the proposals are to be left any time before Two oflock y.M. of the said 19th day of May, 1862, after which hour no tender will be received.

GERALD C. TALBOT, Director-General.

ceived. India Office, May 5, 1862.

TO SPELTER MANUFACTURERS.—The Directors of the GENERAL MINING COMPANY FOR IRELAND (LIMITED) APPRISE all ZINC SMELTERS that they are now in a POSITION to FURNISH in quantity REGULAR SUPPLIES of CALAMINE, containing a high percentage of metal. The great
deposit of calamine on the property of the company is the only one of magnitude known in the United Kingdom, but it is precisely similar in character to those in Belgium and
Prussia. The ore is carefully dressed by the most approved machinery, and will be sold either raw or calcined, at the option of the purchaser. The quality of the spelter made from this ore is of the first-class, and is very superior to that manufactured from blende.

By order, EDWARD MORAN, Sec.
Offices, 29, Westmoreland-street, Dublin.

TO COLLIERY OWNERS AND COALMASTERS. The ADVERTISER, a man of thorough business habits and proved success in the management of the commercial and sales department of collieries, is OPEN to an ENGAGEMENT as MANAGER, or to TAKE CHARGE of SALES of COALS or OTHER MINERALS. Or, he would arrange to take the whole or part of the produce of a colliery, and could provide wagons, also capital if required. Having an extensive connection over a large district, his services would be found valuable to a new colliery, or to any coal owner who wished to develope his property. Ample references.—Address, "E. C.," care of Messrs. Tait and Sons, Rugby.

GREAT CRINNIS COPPER MINE, IN THE PARISH

CREAT CRINNIS COPPER MINE, IN THE PARISH OF ST. AUSTELL, CORNWALL, FOR SALE, BY PRIVATE CONTRACT, together with the extensive and complete PLANT and MACHINERY for working the mine. The unine is held under a lease for the term of 21 years, from the 29th September, 1888, at the favourable rate of 1-20th dues.

It having been resolved by the shareholders to wind-up the affairs of the present company, the liquidators appointed for that object are desirous of receiving tenders for this valuable mining property.

A new shaft has just been completed to the 120, on the course of the great lode, which preserves its masterly size. Copper ore of the value of £1,500,000 was formerly extracted from this great lode in upper levels, and it is the opinion of people practically conversant with the locality that a counterpart of this rich deposit exists, which, with the outlay of additional capital, may one day be discovered, and lead to similar great results.

Fesuits.
Further particulars, or any information, may be obtained on application to Mr. Tur.
GONHEAD, No. 156, Greaham House, Old Broad-street, London, on behalf of the liquid tors, and to whom tenders may be addressed; or to Capt. Woolcock, the agent on t mine.—London, May, 1862.

HENNOCK COPPER, TIN, AND IRON LODES.—TO BE LET, for a term of 7, 14, or 21 years, from Lady-day last, all those IRON LODES, with indications of copper and tin lodes, on part of HIGHER BOWDEN ESTATE.—For viewing the same, and further information, apply to Mr. George Perriman, Hennock Village, Devon.

VALUABLE SLATE QUARRY TO BE SOLD, situate between the town of Dolgelly and Barmouth, on a sloping ground, within 300 to 400 yards of a navigable part of Barmouth Rilver. The Weish Coast Rallway, now in progress, is to go by the quarry. The slates are of excellent substance, colour, split, and sizes.—Apply to Mr. Ellis Rees, Blue Lion, Dolgelly, North Wales.

SLATE QUARRY, FESTINIOG, MERIONETHSHIRE.—TO BE SOLD, a SLATE QUARRY partly opened, with an immense body of slate rock of fine cleavage, close to a railway.—Address, "X. W.," Mining Journal office, 28, Fleet-street, London, E.C.

SLATE QUARRY.—An INTEREST TO BE SOLD in a SLATE QUARRY, now working, near CARNARVON.—Apply to Messis. Fyson, TATHAM, and Co., solicitors, 3, Frederic's-place, Old Jewry.

TO MINING CAPITALISTS.—TO BE LET, in MERIONETHSHIRE, NORTH WALES, SETTS for MINING PURPOSES, in a district comprising many thousand acres, over which the Crown claims have been redeemed. There are strong indications of lead, copper, and other minerals, also state and lime. The setts lie nearly between the Liangynog Lead Mines and the celebrated Clogau Gold Mine, which is yleiding from it to 12 ibs. avoirdupols weight of pure gold weekly; from the former 7 miles, the latter 14 miles distant. None need apply but the principals of mines, or their agents.—For further particulars, and permission to view the setts, address H. T. RICHARDSON, Esq., Aber-Hirnant, Bala, North Wales.

TO BE LEASED, for a term of years, the MINERALE UNDER the GELLY ESTATE, in the parish of BETTWS, CARMARTHENSHIRE. The property is situated near the Lianelly Railway, within a distance of 13 miles to the important shipping port of Lianelly. There are several SEAMs of ANTHRACITE COAL already proved on the property, varying from 3 to 5½ ft. in thickness, together with numerous BEDS of RioNSTONE, that may be wrought in conjunction therewith.—For terms and further particulars, apply to JAMES JONES, Eq., Llangadock, Carmarthensbire, who will show the property; and to DAVID LLEWELLIN, Esq., Mining Engineer, &c., Glyn, Neath, Glamorganshire.

DESIRABLE INVESTMENT.—TO BE SOLD, a COPPER MINE situated in NORTH WALES, and below the control of the control o DESIRABLE INVESTMENT.—TO BE SOLD, a COPPER, who is willing to dispose of the same upon moderate terms. The mine is fairly opened, and several lodes and pipes of rich ore laid bare, and are to be seen. An adit level has been driven 100 fms. in length, and a tram laid to the dressing-floor, which is situated by the road side. Transit to port within easy distance. There is an abundant supply of water-power for driving machinery, for crushing, &c.—For further particulars, apply to Measrs. Goulden and Swinburn, solicitors, 56, King-street, Manchester.

WANTED, by a youth aged 18 years, an ENGAGEMENT for IMPROVEMENT UNDER a MINERAL ENGINEER or MANAGER, where he would be actively employed. Can make underground surveys, and is generally acquainted with the duties of a surveyor. Salary not so much an object as active employment.—Address, E. Edwards, No. 43, Charles-street, Tredegar Ironworks, Moneythabirs.

A LIMITED COMPANY, comprising shareholders of the first respectability, possessing an ironworks most eligibly situated for economical working, and obtained on peculiarly advantageous terms, having also ample capital and excellent prospects, is OPEN to RECEIVE COMMUNICATIONS from GENTLEMEN of position and means ABLE to FILL the POST of MANAGING DIRECTOR, either for London or the works. Liberal terms would be made with parties really qualified for the above position, or that of director only if able to bring orders and business connections.—Address, "L. M.," care of Messrs. Druce and Sons, Billiter-square, E.C.

CENTLEMEN DESIROUS of EXTENDING the BUSINESS of FIRE and LIFE ASSURANCE may be APPOINTED AGENTS, either pub-licity recognised or private, by addressing letters to "No. 1150," City of Glasgow Bank, Argyle-street, Glasgow,

FOR SALE, a 100 in. cylinder ENGINE, in fine order, good as new. Cheap.—Apply at No. 184, Gresham House, Old Broad-street.

FOR SALE, a splendid 24 in. cylinder ROTARY ENGINE, with BOILER, fittings, bobs, &c., complete, equal to new, having be cted.—Apply to Mr. Evans, 1, Bunhill-row, London.

FOR SALE, a splendid nearly NEW 30 in. cylinder STEAM PUMPING ENGINE, with 10 ton BÖILER, very bright, and in perfect order.—Apply to Mr. James Hollow, Leiant, Hayle.

FOR SALE, a FIRST-CLASS HORIZONTAL STEAM ENGINE, with double cylinders of 18 in. diameter, stroke 2 ft., and fitted with winding and pumping gear. The engine was made by Mr. Richardson, of Hartiepool, is very highly finished, and in a condition nearly equal to new.—Apply to T. S. SETTON,

FOR SALE, ONE 18 in. cylinder PORTABLE ENGINE and BUILER, on wheels, suitable for pumping and winding, fitted with link reversing ear. Also, ONE 24 in. HORIZONTAL ENGINE, for pumping or winding. The bove engines are new, and of first-class materials and workmanship.—For particulars nd price, apply to H. T. Balfous, engineer, 16, Adam-street, Adelphi, London, W.C.

FOR SALE, ONE PAIR of second-hand HIGH PRESSURE HORIZONTAL ENGINES, diameter of cylinders 15 in., and 20 in. stroke, re-HOR SALE, ONE PAIR of second-hand HIGH PRESSURE HORIZONTAL ENGINES, diameter of cylinders 15 in., and 20 in., stroke, reversing gear, strong wrought-iron shaft, adapted for pumping and winding. ONE HIGH PRESSURE HORIZONTAL ENGINE, diameter of cylinder 17½ in., and 24 in. stroke, wrought-iron shaft, and highly finished goaring. ONE new VERTICAL ENGINE, 9 in. diameter, 12 in. stroke, all bright work. ONE 2 horse power model BEAM ENGINE, well finished. NINE COLLERY TRAMS, capable of holding 2 tons of coal. FOUR COLLIERY TRAMS, capable of holding 1 ton of coal. ONE 2 ft. 6 in. FAN, and one small fan, for collieries. SEVERAL useful SCREW JACKS, capable to lift 5 tons.—For particulars and prices, apply to George Youno, Briton Ferry Foundry, near Neath.

AFETY FUSE,—Messrs. WILLIAM BRUNTON AND CO.,
PENHALLICK, POOL, near CAMBORNE, CORNWALL, and BRYMBO, near
WREXHAM, MANUFACTURERS OF FUSE, of every size and length, as exhibited
in the Great Exhibition of 1851, and supplied to the Royal Arsenal at Woolwich, the

In the Great Exhibition of 1851, and supplied to the Royal Arsenal at Woolwich, the Arctic Expedition, and every part of the globe. For the convenience of their customers and others in the North, W. Brunxon and Co. have recently erected a branch manufactory at Brymbo, near Wresham, where, as at Cornwall, they are at all times PREPARED to EXECUTE UNLIMITED ORDERS for SUPPLYING FUSE upon warrant that it will prove equal to, if not better than

C HARLES LES DAVEYAND C SAFETY FUSE MANUFACTURERS, ST. HELEN'S JUNCTION, LANCASHIRE. THE GILVACH COAL COMPANY (LIMITED), ABERDARE-MERTHYR DISTRICT, CARDIFF, GLAMORGANSHIRE. ered under the Joint-Stock Companies Acts, whereby the liability of each shar holder is limited.

Capital £30,000, in 15,000 shares of £2 each. 5s. per share to be paid on application, and δs . on allotment.

DIRECTORS.

JAMES BROWN, Esq., Mayor of Newport, Monmouthshire.

J. CHURCH, Esq., C.E., Assoc. Inst. C.E., Chelmsford, Engineer of the Gravesend, the Chelmsford, and the West London Junction Gas Companies.

FRANCIS FORD, Esq., London Agent for the Brymbo Ironworks, No. 9, Lawrence Penntney, bill.

Pountney-hill.

CHARLES HOGHTON, Esq., 61, Westbourne Park-villas, Bayswater.

S. LIPSCOMB SECKHAM, Esq., Carlton Lodge, Oxford.

F. R. DE LA TREHONNAIS, Esq., Oak Villas, Norwood.

C. F. S. WORDSWORTH, Esq., Cranford Lodge, Darford.

BANKERS—The London and County Bank, Lombard-street.
AUDITOR—F. Maynard, Esq., Public Accountant, 19, Bread-street, E.C.
EERS—Mesers, Lind and Rickard, 3, Bank Chambers, Lothbury; Measrs, R. Masse
and Son, Birminghani.
Solicitors—Mesers, Tucker and New, 25, Clement's-lane, Lombard-street.
SECRETARY—Mr. William P. Beilies.

OFFICES,-10, LAWRENCE POUNTNEY LANE, CANNON STREET.

OFFICES,—10, LAWRENCE POUNTNEY LANE, CANNON STREET,

This company is formed for the purpose of working the coal, ironstone, and fire-clay
under the Gilvach Farm, situate in the Aberdare-Merithyr district, Glamorganshire.

The property has been secured on very advantageous terms, under a lease for 60 years,
at low royalties. It is within 1000 yards of the terminus of the Eily Valley Railway; a
wayleave over the intervening property has been secured. The railway communication
is thus complete to the port of Cardiff, distant only 17 miles.

Mr. Arthur Owen Davies, the eminent mining engineer of Newport, says:—"A peculiar advantage presents itself for the establishment at Gilvach of a first class collery,
with a comparatively trilling outlay. Some of the principal cost some ile high and dry,
with their outcrops covered only by a few feet of soil. The total quantity of the coal will
exceed 20,000,000 tons, two-fits of which can be worked by day or free drainage levels
and shallow pits. The No. 2 vein has been already won on the property by day level,
For hardness it is not excelled by any shipped at Cardiff. It is eminently adapted for
house, gas, and iron manufacturing purposes. This seam alone will produce 1,000,000/
tons, which is equal to aduly output of 100 tons for 50 years. The celebrated No. 3 coal,
worked in the neighbourhood by the Great Western Railway Company for their locometive engines, may also be won on this property by a day level. A pit of only 40 fins,
will win the famous Abergorky steam coal, which is equal to the best coal in Wales for
marine engine purposes. Gilvach is one of the most eligible properties in South Wales
for mining enterprise. It contains all the elements requisite to insure commercial success.'

The estimates of profit which accompanies Mr. Davies's report shows a next return of
the capital exceeding 25 per cent. per annum.

A detailed prospective, with plan and section, and a copy in extense of the elaborate

company's omics.
All applications for shares must be preceded by a payment to the company at their bankers of 5s. per share on every share applied for in part payment of the deposit thereon.

THE SOUTH FOXDALE SILVER-LEAD MINING COMPANY (LIMITED).

Incorporated pursuant to the Joint-Stock Acts of Parliament for Limited Liability.

Capital \$25,000, in 6000 miners of \$25 each.

A deposit of 5s. per share to be paid on application, and 15s. on allotment.

No call to be made at intervals of less than three months, and not to exceed 10s.

per share.

The liability of shareholders is limited to the amount of their shares.

The liability of shareholders is limited to the amount of their shares.

Directors.

Col. R. Y. BUSH, 55, York-terrace, Regent's-park, London. [of Man. FREDK. JOHN KING, Eq., 1, Bishopsgate-street, E.C., Reigate, Surrey, and the Isle HENRY EDWARDS, Eq., Maze-hill, Blackheath, Kent.

Capt. D. R. COMYN, R.N.R., 1, Archer-terrace, East India-road, London.

WILLIAM OGILYIE, Eq., Notting-hill, and 1, Cashion-court, Broad-street, London.

DAVID ROBERTS, Eq., M.D., Great Dover-street, London.

JOSEPH THATON, Eg., 2, Lower Kensington-gore.

BANKERS—London and County Bank, 21, Lombard-street, E.C.

Soliciton-James Bourdillon, Esq., 30, Great Winchester-street, E.C.

BROKERS—Messrs, James Ewart and Son, 3, Cophall-buildings, Throgmorton st., E.C.

SECHETARY—Mr. William Edwards.

OFFICES,-No. 9a, GREAT ST. HELEN'S, LONDON, E.C.

ABRIDGED PROSPECTUS.

ABRIDGED PROSPECTUS.

This company is formed for the purpose of purchasing the lease of an extensive sett of richly mineralised property in the Isle of Man, called the South Foxdale, and for fully developing the same, the set being upwards of four miles in extent, and has been obtained under most advantageous terms. The success of mining in the Isle of Man is an established fact, of which the profits made by the Foxdale and Laxey Companies are ample proofs—the Foxdale Company having within a few years paid in dividends the large sum of £168,508. The Laxey Company shares of £100 are at present worth £1200 each.

By a reference to published returns, it appears that the ores from the Isle of Man give a higher percentage of lead, and four times the yield of silver per ton, than those of Great Britain and Ireland.

The set lies south of the Foxdale Mines, and embracing within its limits the shipping port of 8th Mary possesses the advantage of a considerable reduction in vest of carriage.

carriage.

The sett has recently been surveyed by eminent mining engineers—Capt. R. Rowe, of the Laxey; and Capt. M. Grose, Isle of Man, whose report is endorsed by Warington Smyth, F.R.S., FG.S., Inspector of Crown Mines.

Prospectuses and forms of application for shares may be had of the brokers or the secretary, and all information may be obtained, and samples of the ore seen, at the offices of the company.

MUESELER'S SAFETY-LAMPS.—ORDERS RECEIVED by WM. BIRD AND CO., 2, LAURENCE POUNTNEY HILL, LONDON, E.C., At the meeting of the Manchester Geological Society, on April 29, 1862, the president (Mr. Joseph Dickinson) said:—"Of the numerous safety-lamps used in mines, Muesser's lamp appeared to him the best. * * For testing, the Davy lamp was undoubtedly the best, but for practical working the Muesseler was to be preferred. Thousands of this kind of lamp were used in the Beigian mines."

TO THE SHAREHOLDERS OF SOUTH EXMOUTH. GENTLEMEN,—On my return to Exeter, a month since, I found you working this mine, and I thereupon gave formal notice to your purser that it is being worked without my mowiedge or consent, although I am the owner of one-eighth of the sett. As I do not know you personally, I take this mode of communicating the above, and also that at the oroper time I shall claim my share of the profits, whatever they may be.

I am, gentlemen, your obedient servant,

R. EALES.

NOUVELLE MONTAGNE COMPANY.—At the last general meeting, held at Engls, on the 28th of April, it was resolved that the DIVIDEND for the year 1861 should be FIFTY FRANCS PER WHOLE SHARE,

payable as follows:— 28 frs. the lat July next, as first dividend, on presentation of Coupon No. 10, which, marked with a stamp indicating the payment, will be returned to the holders to enable

marked with a stand content of them to receive 25 frs. the 31st December, 1862, as second dividend.

25 frs. the 31st December, 1862, as second dividend.

Also, a DIVIDEND of TEN FRANCS PER FIFTHS of SHARES, payable—5 frs. the lat of July, 1862, and 5 frs. on the 31st of December, 1862, against the Coupons bearing those dates.

dates.
remaining bonds of the company will be reimbursed from the 1st July next.
payment of the dividends, also of the bonds drawn, and the coupons of intes made at-

e made at—
Verviers. At the offices of the company,
London By Messrs, C. Devaux and Co,
Paris By Mr. Rougemont Det Lowenberg,
Bruxelles By Messrs, J. P. Matthieu and Fliss,
Liege By Messrs, Nagelmacker and Fliss,
Victor Simon, Lo Directeur General de la Société.

Verviers, le 30 April, 1862.

LAW LIFE ASSURANCE SOCIETY, FLEET STREET, LONDON. ESTABLISHED 1823, The invested assets of this society exceed £5,000,000; its annual income is £495,000. Up to 31st December, 1861, the society had paid in claims upon death—

Together£5,444,676 The profits are divided every fifth year. All participating policies effected during the resent year will, if in force beyond 31st December, 1864, share in the profits to be di-

present year will, if in force beyond 31st December, 1864, share in the profits to be di-vided up to that date.

At the divisions of profits hitherto made, reversionary bonuses exceeding £3,500,000
have been added to the several policies.
Prespectuses, forms of proposal, and statement of accounts, may be had on application
to the actuary, at the office, Fieet-street, London.
February, 1862.
WILLIAM SAMUEL DOWNES, Actuary.

ALBERT AND MEDICAL LIFE ASSURANCE, 7, WATERLOO PLACE, PALL MALL, LONDON, 8. W. ESTABLISHED 1888. The business of the Medical, Invalid, and General Life Assurance Society having been amalgamated with the Albert Life Assurance Company, the united business will bence-orth be carried on under the above title.

be carried on under the above title.

Accuminated fund exceeds

Subscribed cudital

447,180

Paid-up capital

Annual income from life premiums, upwards of.

220,000

new business is now progressing at the rate of more than £25,000 per annum.

m Prof. De Morgan's report upon the last valuation of liabilities (end of 1888), and tatements of accounts, it appeared at that time that the surplus in favour of the thusiness alone, after providing for every liability, was £192,925 2s. 11d.

HENRY WILLIAM SMITH, Actuary.

C. DOUGLAS SINGER, Sec.

THE PARAFFIN, OR MINERAL OIL SAFETY GAUGE, made for the Asphaltum Company (Limited), ENABLES CONSUMERS to AVOID FURGHASING PARAFFIN or MINERAL OIL of an EXPLOSIVE or DANGEROUS KIND. Price, with a tin oil holder, is. 6d. each; forwarded by post upon receipt of 18 stamps.—Apply at the offices of the company, 34, Great Winchester-street London E.C.

In the Court of the Vice-Warden of the Stannaries. Stannaries of Cornwall.

IN RE WEST WHEAL TOLGUS MINE.

V. Burrow, dated the flat day of March last, BY PUBLIC AUCTION, at the Registrar's Office, Truro, on Wednesday, the 28th day of May inst., at Tweive o'clock at noon precisely, 4 (512ths) SHARES of the said defendant, of and in the said MINE.

JOHN GILBERT CHILCOTT, Truro, Agent for John L. Peter, Redruth, Plaintiff's Solicitor.

Dated Registrar's Office, Truro, May 13, 1862.

NEWPORT, MONMOUTHSHIRE. LOCOMOTIVE ENGINE FOR SALE, BY AUCTION. ALTERATION OF DAY OF SALE.

MESSRS. JACKSON, NEALE, AND CO. WILL SELL, BY
AUCTION, without reserve, at the Westgate Hotel, Newport, Monmouthshire,
on Monday, May 19th, 1862, instead of the 12th, as previously advertised, at Tweive for

on Monday, May 19th, 1862, instead of the late, as preHalf-past Twelve o'clock to the minute,
A capital LOCOMOTIVE ENGINE, in good working order, suited to a narrow gauge
railway, a six-wheel coupled, saddletank engine, about 19 tons weight, cylinders 16 in
diameter, 18 in. stroke, wheels 3 ft. 6 in. diameter, fitted with one pump in addition
one of Giffard's patent injectors, cylinders, pistons, and valves, new large copper fire-box

190 breas tubes, all good.

and 120 brass tubes, all good.

The engine is at Mr. Marshall's shed, at Bassaleg, near Newport, and car any time after Monday, the 12th Msy, by application to Mr. Thomas Davie at Bassaleg.

For further particulars, apply to Messrs. M. Brittan and Sons, solicitors, or the auconcers at Bristol.—April 24, 1862.

IMPORTANT MINE SALE.
GREAT WHEAL ALFRED MINE, HAYLE, CORNWALL,

GREAT WHEAL ALFRED MINE, HAYLE, CORNWALL, one mile from the port of Hayle.

TUESDAY, the 20th day of May, 1862, at Kleven o'clock, all the VALUABLE ENGINE AND MINE MATERIALS at GREAT WHEAL ALFRED MINE, HAYLE, CORNWALL.

MR. JOHN BURGESS is instructed to SELL, BY PUBLIC AUCTION, the underauntioned VALUABLE ENGINES and OTHER MATERIALS on this EXTENSIVE MINE.

ENGINES.

COPPER HOUSE ENGINE.

COPPER HOUSE ENGINE.
65 in, cylinder PUMPING ENGINE, 9 ft. in and 8 ft. out, with TWO BOILERS
2 tons each, and first picce of rod, with strong faggotted caps and side plates.
25 in, cylinder WINDING ENGINE, with ONE BOILER and fittings, powerful

rusher atlached.
ONE 8 in. cylinder ENGINE, equal beam, with 4 ton BOILER; attached thereto is BORING MACHINE, a PUNCHING MACHINE, SCREWING MACHINE, and

and BOILING MACHINE, a PUNCIIING MACHINE, SCREWING MACHINE, and BLAST ENGINE.

ONE 6 in. eylinder ENGINE, with BOILER about 3 tons.

A POWERFUL TURNING LATHE and TOOLS on the most improved principle, 66 ft. leg shears, 4 shieves and brusses.

50 ft. leg red pine shears, deal caps and brusses.

One 10 armed capstan, oak axie, cast-iron centre piece and brusses.

One 8 armed captan, cast-iron axie and brusses.

Three capstan ropes, 12, 10, and 6 in.

Powerful buiance bob at copper house shaft, English oak beam, 32 ft. long, 18×19 in. square, with eak king and queen pest, faggotted straps and pins.

Balance bob, 30 ft. English oak beam, 19×20, with oak king and queen post, double faggoted strap and pins.

Balance bob, 50 ft. English oak beam, 16×16 in., king and queen post, double faggoted strap and pins.

Balance bob, English oak beam, 16×16 in., king and queen post.

Angie bob, oak beam, double faggoted straps and pins.

Two double powerful crab winches. PITW OR K.

PITWORK.

3 9 ft. 11 in. pumps. 1 4 ft. 11 in. flat bottom windbore. 1 11 in. and top doorpiece.

FLOORS.

1 19 In. H and top doorplece.
1 19 In. clack seat piece.
9 9 ft. 19 in. pumps, and 1 matching.
1 6 ft. 20 in. flat bottom windbore.

HOUSE.
3 powerful hand screws, iron and shovels. shovels.

New galvanised jigging bottoms.

2 to 3 tons old junk, anti-friction gree
oak ladder staves.

About 800 fms. of tramroad irons, 2 ir

About 800 fms. or trainform from, a money fm.
4 pair of faggotted yokes.
About 20 tons of cast-fron.
About 10 tons of double and treble fag goted fron of all sorts.
About 10 tons of sundry old fron.
Large quantity of ladders, fron and woo staves.

28 9 ft. 13 in. pumps.
1 9 ft. 13 in. strong sinking windbore.
1 9 ft. 13 in. strong sinking windbore.
6 ft. 13 in., doorpiece, ditto.
3 3 ft. 6 in. 13 in. doorpiece, ditto.
2 13 in. H and top doorpiece.
2 4½ ft. 13 in. flat bottomed windbores. bine i.

1 3 ft. 14 in. clack seat piece combined.

1 2 ft. 12 in. working.

2 12 in. flat bottom windbores.

1 10 ft. 10 in. sinking windbore.

1 13 ft. 15 in. working barrel.
1 16 in. and 1 17 in. 9 ft. pumps.
1 8 ft. 17 in. flat bottom windbore.
1 9 ft. 18 in. sinking windbore.
1 9 ft. 18 in. pumps.
1 1 13 ft. 18 in. new working barrel.
2 16 ft. 19 in. door.

PLUNGER POLES.
stocking.
stocking.
stocking.
1 7½ in, 10 ft. plunger pole and stocking.
1 7½ in, stuffing box and gland to match 1 14 in. 12 ft. plunger pole and stocking.
1 14 in. 10 ft. plunger pole and stocking.
1 18 in. 11 ft. plunger pole and stocking.
1 12 in. 14 ft. plunger pole and stocking. BUCKET RODS

42 fms. best fron bucket rods, 3 in. to 2½ in.
4 pair double fargotted main caps, cutters and gibs, and turned pins.
18 pairs 7 in. fargoted rod pintes, 19 ft. to 21 ft. long.
9 pairs 8 in. fargoted rod plates, 19 ft. to 21 ft. long.
10 pair 6 in. fargoted rod plates, 19 ft. to 21 ft. long.
18 pair 6 in. Shropshire rolled rod plates.
MAIN 42 fms. best iron bucket rods, 3 in. to

3 shaft gigs.
1 ditto entirely new, iron conical top.
10 iron tram wagons, in good conditionand several shaft skips.

RODS.
2 11 in. main rods.
1 8 in. main rod.

Miners' chest shed, 81 ft. long, 12 ft. wide.
Shed over blast engine, 30 ft. long, 12 ft. wide.
Shed over boring mill, 40 ft. long, 12 ft. wide.
Material house, 30 ft. long, 12 ft. wide.
Material house, 30 ft. long, 12 ft. wide.
Flooring 1½ in., beams 7 in. by 3 in.

Piooring 14s in., beams 7 in. by 3 in.

MATERIA
2 14 ft. 3 in. flat thread shaft acrows.
Several new winze kibbles.
3 leading blocks, powerful single, double,
and treble blocks, adapted for the
heavy working of this mine.

2000 fms. best steam whim chain, size 34, 9-16ths, to 36.

A very large weighing machine (from 1 cvt, to 5 tons).

A quantity of staples and glands, different size.

ent sizes.
Several pairs of faggoted bucket prongs,
and brass forms to fit.
About 100 fms. bridge rails.

About 100 fms. bridge rails.

1 smiths' beliows.
4 large anvils.
Large mandril.
2 4 ft. tubes for dry, 30 ft. long, miners'
dlal, &c.
Descriptive catalogues will be ready for delivery as soon as possible. Any information required in the meantime can be obtained from Mr. Buraess, Barracose, Redruth bornwall (the auctioneer); Capt. Bucelholz, on the mine; Mr. James Hollow, Mining Mines, Leiant, Hayle; or David Colens, Seq. 6, Bark Chambers, Lothbury, London. Lunch at Eieven a.M. on the 20th of May.—Barnecose, Redruth, April 30, 1862.

SALE OF IMPORTANT AND VALUABLE FREEHOLD PROPERTY, IN THE

MR. TIPPET WILL SELL, BY PUBLIC AUCTION, at the Red Lion Hotel, in the aforesaid borough of Truro, on the 27th day of May Inst., at Two o'clock in the afternoon, in the following or such other lots as may then be determined on for the convenience of purchasers.

Lot 1.—The FEE SIMPLE and INHERITANCE in possession of and in all those substantially built and spacious erections, known by the name of the TRURO TIN SMELTING WORKS, comprising a lofty and well-built stack, and all the works and offices necessary to carry on an extensive smelting business, and capable of smelting from 10 to 12 tons of black tin daily, with a yard thereto attached, and a stream of pure water flowing through the same, formerly in the occupation of the Governor and Company of Copper Miners in England, together also with the yard, immediately opposite the said works, and the quay therein which abuts on the Truro tidal river, which is navigable for vessels of considerable burthen, and where coals, tin, and other produce may be deposited and shipped, and landed free of quay dues and other charges.

These works were built some years ago, at great expense on the most approved plan, and are situated in the most central town of Cornwal, and in the midst of a mining district. They are easily convertible into a brawery, distillery, paper mills, iron and brass foundry, engineering, or shot manufactory, gas-works, or other business requiring extensive accommodation.

If not sold together, the yard and quay, with the workshops and stores under, will be old in separate lots.

To a separate lots and INHERITANCE in possession of and in all that spacelous MALT HOUSE adjoining Lot 1, with store room over, three-stailed stable and lot, with an enclosed yard, and now in the occupation of Mr. S. Miners, malaster. Lot 3.—All those TWO DWELLING HOUSES near adjoining Lot 2, and suitable for

Lot 3.—All those TWO DWELLING HOUSES near adjoining Lot 2, and suitable for the residence of a malternan and labourer, now in the occupation of Miss Crossman and W. Boltho.

Lot 4.—The FEE SIMPLE and INHERITANCE in possession of and in all those THREE DWELLING HOUSES adjoining each other, situate in St. Austeil-street aforsaid, and now in the respective occupancy of Jane Benney, John Champion, and others. These houses, if not sold in one lot, will be sold separately, if desired, for the convenience of purchasers.

Lot 5.—The FEE SIMPLE, with immediate possession, of and in all that stone-built and excellent DWELLING HOUSE and OUTBULDINGS, with the productive garden thereto attached, situate in St. Austeil-street, in the aforesaid borough, now or late in the occupation of Mr. Isaac.

All information required may be obtained on application to the auctionser, Lemonstreet, Turno, or to

Messrs. HODGE, HOCKIN, AND MARRACK.

Truro, May 7, 1882.

NEW WHEAL FRANCES MINE, NEAR PENDARYES, CAMBER

M. R. RICHARD GREENWOOD has been favored instructions to SELL, BY AUCTION, at NEW WHEAL FRANCES and Truesday, the 20th day of May, at Eleven o'clock in the forenous, the fallow perior and VALUABLE MACHINERY and MATERIALS, via :
ONE 24 to. cylinder DOUBLE ACTING ROTATIVE CONDESSING ING (nearly new), 9 ft. stroke in the cylinder and 8 ft. at crank, for samples at my with ONE BOILER 10 tons.

(nearly new), 9 ft. stroke in the cylinder and o it. at crans, for stamples with ONE BOILER 10 tons.

I stamps' axie, with 12 heads complete; 15 fms. of 6 and 7 in pume, bucket rods, balance bobs, 2 cisterus, 2 shaft tackles, 1 horse whin, when my plates, with 30 fms. of launders, 30 fms. of launders, 30 fms. whin my plates, with 30 fms. of wood rods; 30 fms. of launders, 30 fms. of weard of the versal large wood sheds, with the dressing-floors and tools complete.

Also, 1 smiths' bellows, anvil, smiths and miners' tools, new and old ims, a cast-steel, screw stocks, plates and taps, various lots of new and old time. The whole of the macilinery and materials, as they now stand, will be of the macilinery and materials, as they now stand, will be of the macilinery and materials, as they now stand, will be sold to the usual way the same lots as will suit the convenience of purchasers. Refreshments will be presideness.

for an will suit the same, apply to the agent on the mine; W. J. Denwal, b. For inspecting the same, apply to the agent on the mine; W. J. Denwal, b. S. Adam's court, Old Broad-street, London; R. H. Pike, Esq., Mining Offen Osio or at the office of the auctioneer, High Cross, Truro.

May 8, 1862.

R. GREENWOOD, Assess

ANGARRACK CONSOLS MINE, NEAR HAYLE.

MR. LITTLE WILL SELL, BY AUCTION, on Wedness and Plant May inst., at Twelve o'clock precisely, the following ESGINE TERIALS, viz. --ONE 42 in. eyiludor ENGINE, 8 ft. stroke, even ben, vig BOLERR, about 10 tons; 1 8 arm capatan, with oak axie; 1 60ft, sters, with complete; horse whim, and whim rope; 2 horse whim pulleys, about 90 fms.; chain, 24 fms. 1½ in. bucket rols, 5 pair 6 in. strapping plates, 4 10 in. mis rolater, a bout 50 fms. iron stave ladders, 14 9 ft. 8 in. pumps; 15 9 ft. 6 in. 6 in. fmt bottom windoores; 1 8 in. sinking ditto, 1 6 in. fmt bottom dits; 1 is, pole, 10 ft. long; 1 6 in. stuffing box and gland, 1 6 in. poic case, 16 in. Each piece, 3 8 in. doorpieces, 4 6 in. owtking barrels, 6 8 in. bneket prong, sewed wrests winch, a quantity of staples and glands, pump rings, flarge both set offs, 3 colar launders, about 100 fms. wood air piece, brown whin, water hard barriers, pick and shoveh hilts, small scales and weights, large beam decise me bench, several lots of useful timber, with all the account-house furniers, & The agent on the mine will show the materials, and for any further sardent to S. T. G. Downing, Esq., solicitor, Redruth; Messre. Valtance and Vitale.

The agent on the mine will show the materials, and for any further sardent to S. T. G. Downing, Esq., solicitor, Redruth; Messre. Valtance and Vitale.

N.B.—The mine has been well opened for further procecution. The despath driven to a great extent, and severul highly mineralised lodes have been income. MR. LITTLE WILL SELL, BY AUCTION, on Wed

IMPORTANT COLLIERIES, AND VALUABLE FREEHOLD ESTATE, AND OTHER LANDS AND PROPERTIES FOR SALE, BY PROPOSAL

TO BE SOLD, the several EXTENSIVE and wellow current-going sea sale COLLIERIES, FREEHOLD ESTATE, FARL HAD ADDITIONAL THE HEREDITAMENTS, comprising—
The BYERS GREEN COLLIERY, including the royalty within the 00 had an and TWO FIELDS (together 9 acres and 27 perches) of FREEHOLD GRESS LEST COLD FR

and TWO FIELDS (together 9 acres and 27 perches) of FREEHOLD GRISS Lift near to Byers Green.

The NEWFIELD COLLIERY, with the MINES in BINGHESTER at MY FIELD, and in the northern part of BRTLEY, essently writed by eight by the property of BRTLEY, eaverally writed by eight by the STATE of METHER CONTAINED BY A STATE OF METHER CONTAINED BY A

HALL, and OTHER WEST HETTON COLLIERIES, with the FREEHOLD IN at Quarrington Hill Top, containing 71 acres.

And the CROWTREES COLLIERY, at in the county of Durham.
Together with all and singular the ENGINE HOUSES, ENGISES, MACRIST RAILWAYS, COKE OVENS, It IVE and DEAD STOCK, AGENTS and WORKE HOUSES, WORKSHOPS, STABLES, GRANARIES, and OTHER ERCITOS BUILDINGS to the same several collieries respectively belonging and belt breather the several descriptions of coal produced at these collieries are of the becapable tained in the county of Durham, and are well known in the London and coaling foreign markets; and the coke is of the highest reputation, as well throughest lapta as at several foreign port of the several descriptions of the produced of the first point of the West History.

These properties are being disposed of by order of the directors of the West History. The properties are being disposed of by order of the directors of the West History and Railway Company, and the produce from the different collients below by say is intended to be restricted to that company's lines of railway, and the produce from the different collients below by say is intended to be restricted to that company's lines of railway, and the significant connection with the same; the rates for the leadings and shipmen being connection with the same; the rates for the leadings and shipmen being and the produced of the connection with the same; the rates for the leadings and shipmen being connection with the same; the rates for the leadings and shipmen being connection with the same; the rates for the leadings and shipmen being the same and conditions as shall be agreed upon with the respective.

gulated on such terms and conditions as small be agreed upon the acchasers.

The different collieries will be sold by proposal, and the purchasers will have thou (if they desire it) of paying only a portion of the purchase mony at the completion of their respective purchases, and the remainder by instalment, will rest at the rate of £5 per cent. per annum, at such rates, and on giving guh with the purchase of the property, as shall be mutually determined. Particulars, containing the rents, terms, conditions, and provisions reserved at tained in the several leases and agreements, under which the different cellifies, of the agents' and workmen's residences as do not belong to the company shells of the end of the several leases and the company shells of the great and workmen's respectively held, with all other necessary information, will be prepared, as in delivery on the 26th inta;; and copies may be had on application to Mr. Tushi citor, Durham, by whom all proposals from intending purchases will be redw and inclusive of the lat of July next.—Durham, 13th May, 1862. 1 pair 5 in. Shropshire rolled rod plates,
1 pair 4 in. ditto
6 pair 6 in. balance box plates.
A large quantity of rod bolts, flange and
door plus.
A large quantity of 2 ft., 4 ft., and 6 ft.
shleves and pulleys.
3 shaft gigs.

RATENSIVE MINERAL AND GRANITE FIELD TO LEGATION.

The MARQUIS OF BREADALBANE is READY to TREAT for ILM the MINERALS on his ESTATES in the counties of PERTH and ABOLL LEAD MINES at TYNDRUM have been in operation for many years, and mis working order, with powerful crushing and washing apparatus. Extessive heem made in other parts at considerable expense, and the minerals have been include copper, lead rich in silver, from 100 to 200 czs., and eren 300 cas. of which the ton of orc. Several tons of this ore have brought £50 per ton in the Excitation of the south side of Lochtay, and water-power is available at almost every. Also, TO BE LET, separately from the above if desired, the GRANITE GLEE he LANDS of BARRS, LOCHEATIVESIDE, with right to mass gratics and the LANDS of BARRS, LOCHEATIVESIDE, with right to mass gratics and parts of the Breadalbane property on Locheativesides, and with the COMMON and porphyry in the United Kingdom; the quality is very fine, and ary case, and prophyry in the United Kingdom; the quality is very fine, and ary case, and the largest size, adapted for harbour and other works, can be rised, and the control of the largest size, adapted for harbour and other works, can be rised, and the control of the largest size, adapted for harbour and other works, can be rised, and control of the largest size, adapted for harbour and other works, can be rised, and the control of the largest size, adapted for harbour and other works, can be rised, and the control of the largest size, adapted of the vorking order, and washed over to a tenant on entry, at valuation.

It is believed that many other quarries close to the shore, and equally committed to the control of the control of

prising party.

Apply to Messrs. Davidson and Same, W.S., Edinburgh; or James F. Wush.

Apply to Messrs. Davidson and Same, W.S., Edinburgh; or James F. Wush.

ferent localities.—May, 1862.

TO CAPITALISTS AND OTHERS.—TO BE SOLD, which is situated within six miles of the shipping port of Camaron, is say vale of Bettwa Garmon, and consists of about 15 acres, the whole setting of the shipping port of Camaron, is say vale of Bettwa Garmon, and consists of about 15 acres, the whole exists of which is situated within also be easily manufactured on the property. The introduced on the property of water for working manchinery can be obtained, the property being bondies of water for working machinery can be obtained, the property being bondies by the Cwellyn River, and within a quarter of a mile of Cwellyn Lake, say deep beautiful lakes in Wales, and celebrated for its chardsh, &c.—Father springer, be obtained of, and offers will be received by, Mr. R. Owrs, quarry agent, property of the control of th

ON SALE, a FREEHOLD SLATE and SLAB PROPES near PORTMADOC, CARNARVONSHIRE. The above property data is usual opportunity for capitalists, as there is upon it a large body of rock in the rounding through, with every facility to work the quarry to a great advantage, the road, within a short distance of the above harbour, and clearly of railway, just passed. There are other promising quarries in operation is distanced in the road of railway, just passed. There are other promising quarries in operation is every information, may be had by capitalists, on application by letter, since "T.S.F., Fost-office, Tremadoc, North Wales."

SOUTH WALES COAL.—TO BE LET, the COAL IRONSTONE UNDER the LANDS of Liest-Coal. Cowell Support, and and communicates with the sea and South Wales Railway. It is probable to frailway will be made through this property.—For particular, and Roscox, 68, Lincoln's Inn-fields, London; or to Mr. William Bears, 2018, gineer, Lianelly.

MINERALS TO BE LET.—The MINERALS UND.

MAESTEG-ISHA FARM, at MAESTEG, in the parish of Language, thereabouts, and contains most VALUABLE SEAM of COALS and HONERALS UND. were about a seams have been won and worked, and a large output of coals of coals of the seams have been won and worked, and a large output of coals of coals of the seams have been won and worked, and a large output of coals of coals of the seams have been won and worked, and a large output of coals of the seams have been won and worked, and a large output of coals of the coals of the seams have been won and worked, and a large output of coals of the coals of the seams of the seams

TO BE LET, the MINERALS UNDER the TERC. ESTATE, in the county of GLAMORGAN. The Treasth in extent, and is close to the Lientrissant and Cowbridge stations in extent, and is close to the Lientrissant and Cowbridge stations in the county of first-rate quality. Hematite from ore of the richest quality is to first-rate quality. Hematite from ore of the richest quality is a large scale in the immediate neighbourhood, and it is believed to it estate also. Being on the South Wales Railway, and only about it estate also. Being on the South Wales Railway, and only about it of Cardiff, the produce can be conveyed to market with great facility, Bridgend.

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omion, a.C. widing the power of calculating the time and cost to explore a certain depth into feround, speculating in mining will be assimilated to commercial pursuits, is annistable advantage—that when the ground has been once carefully and ally selected, and operations properly and systematically carried out for its demi, there would be far less chance of unsatisfactory results than are met with bants and manufacturers in the usual routine of their business. As this imfarention must beneficially interest the landowners, mine proprietors, merman minors, weopine it will meet with immediate adoption.—Mining Journal.

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MANUFACTURE, SCIENCE AND THE ARTS.

A I I. WAY C. MANUFACTURE, SCIENCE AND THE ARTS. MANUFACTURE, SCIENCE AND THE AIR'S.

chasiay, March 26, 1862. Subscription, £1 is. annually. Price 6d. stamped.

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NOTICE TO RAILWAY COMPANIES.—A RAILWAY SIGNAL of a NOVEL DESCRIPTION (patented) is NOW IN OPERATION on the MANCHESTER AND ALTRINCHAM RAILWAY, which GIVES NOTICE of the APPROACH of a TRAIN HALF A MILE OFF, and, if required, can announce it at any other given distance. It is novel and simple in its construction, not a single complicated movement in it, and when indid down will not require repairs for years. A model may be seen a the Mining Journal office, 26, Fleet-street, London, in the course of a week, and a gentleman will shortly call on the different railway companies centering in the motropolis to give any required explanations.

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MEWS, E.C.

WATER PRESSURE ENGINES.

WATER PRESSURE ENGINES.

J. SMITH, ENGINEER, BELMONT,
NEAR DURHAM

Begs most respectfully to CALL the ATTENTION of LEAD MINE PROPRIETORS
and OTHERS to his IMPROVED WATER PRESSURE (HYDRAULIC) ENGINES,
which are ADAPTED for both SURFACE and UNDERGROUND OPERATIONS.
The cylinder is placed horizontal, which, with winding drum and pumping apparatus,
are fitted on strong cast-iron bed plates, boiled on Memel timber foundation frame. They
are made from the very best material, and extra strong in all their parts, fitted with improved slide pistons, slot link motion for reversing, and can be managed by any ordinary
workman.

The above engines have been at work pumping and winding in several of the lead miner Aiston Moor, Cumberland, during the last twelve years, and are giving the utmos

satisfaction.

Prices and full particulars may be obtained on application, and contracts undertaken by the above for the erection and completion of these engines in any part of the kingdom guaranteeing the same for any reasonable period.

CORNISH BORER STEEL.—Upwards of ONE HUNDRED AND SIXTY MINES are SUPPLIED with this STEEL, and the DEMAND for it is RAPIDLY INCREASING.—For terms, apply to R. MUSHET and Co., Forest Steel Works, near Coleford, Gloucestershire. CYANOGEN STEEL, CAST STEEL, SHEAR STEEL, and IMPROVED FOREST L. BLISTER STEEL supplied to order by ROBERT MUSIET and Co., Forest Steel Works, near Coleford, Gloucestershire.

Address to the Works, Coleford.

TEST OF WIRE-ROPE AT LIVERPOOL.—
The value of Messrs. Hutchings's statement, relative to a test of their manufacture, will be properly estimated when it is known that the ropes were brought down from London specially prepared for the purpose, and not taken promiscuously from their stock, as the samples tested in October were.

The following, extracted from the Mining Journal of November 10, 1860, shows the relative strength of the different makers' ropes on that occasion. The samples tested were privately purchased some time previously, and spliced for testing by Novall and Co.'s workmen. The test took place in the presence of representatives from the manufacturers, reporters for the press, and a large number of gentlemen connected with mining and shipping in Liverpool:—

SIZE OF NOTE TESTED.

3/4 Inch.

and snipping in Liverpool:

Size of Rops Tested.

3½ inch.

3½ inch.

2½ inch.

3½ inch.

2½ inch.

3½ inch.

8 tons 5 cwis.

8 tons 15 cwis.

8 tons 15 cwis.

8 tons 15 cwis.

11 10 , 7 15 ,

4 Messrs. Hutchings and Co.'s amples were from 1-16 to 3-16 over size.

From this it will be seen that the breaking point of Garnock, Bibby, and Co.'s ropes was on the average 13 per cent. over the guaranteed strain, while those of Hutchings and Co. were 30 per cent. below it.

GARNOCK, BIBBY, AND CO.,
SWAN HEMP AND WIRE-ROPE WORKS, CHAPEL STREET, LIVERPOOL. Flat and round wire-ropes of steel and charcoal iron for mines, inclines, &c., of firs quality wire, and highest standard of strength.

H A L L A N D WE L L S, PATENTEES AND MANUFACTURERS OF SUBMARINE TELEGRAPH CORES, CABLES, &c.—TELEGRAPH CONDUCTORS INSULATED with INDIA RUBBER at £5 per mile and upwards, PARTICULARLY ADAPTED for MINING PURPOSES. Further particulars as to price of cores, cables, &c., can be had on application at £0, Aldermanbury, City, E.C.; and Steam Mills, Mansfield-street, Borough-road, Southwark, S.E. Copper wire covered with slik, cotton, or any other material, to order.

PATENT SAFETY FUSE.—The GREAT EXHIBITION PRIZE
MEDAL was AWAIDED to the MANUFACTURERS of the ORIGINAL
SAFETY FUSE, BICKFORD, SMITH DAYEY, and PRYOR who beg to inform Merchants, Mine Agents, Railway Contractors, and all persons engaged in Blasting Operations,
that, for the purpose of protecting the public in the use of a genuine article, the PATENT
SAFETY FUSE has now a thread wroughtino its centre, which, being patent right, infallibly distinguishes it from sill imitations, and ensures the continuity of the gunpowder,
This Fuse is protected by a Second Patent, is manufactured by greatly improved machinery, and may be had of any length and size, and adapted to every climate. Address,—BICKFORD, SMITH, DAVEY, and PRYOR, Tuckingmill, Cornwall.

AYTOUN'S PATENT SAFETY CAGE AND HOIST.

A YTOUN'S PATENT SAFETY CAGE AND HOIST.

CHANGE OF LICENSE FEE.

The present LOW RATE of LICENSE FEE. £1 per cage, will be CONTINUED till the CLOSE of the INTERNATIONAL EXHIBITION, where facilities will be afforded to parties interested to assure themselves of the value of the invention. A FULL SIZED SAFETY CAGE will be there EXHIBITED in ACTION, and may be subjected to whatever tests parties may desire. Also, a VARIETY of MODELS, SHOWING the ADAPTATION of the SAFETY PRINCIPLE to CAGES of VARIOUS CONSTRUCTIONS, and to GUIDE RODS of IRON as well as of WOOD.

Parties having thus had an orp.—lently of assuring themselves of the trustworthiness of the safety cage, and of providing themselves with all the licenses they may require at a low figure, the patentee proposes, immediately on the close of the Exhibition, to raise the license ten to £6, £7, and ±8 per cage, according to the weight it is calculated to carry. This will enable him to set on foot an active canvass for the introduction of the safety cage into every mining district of the kingdom, a measure plainly impossible with the present low fee of £1.

The patentee has also the satisfaction of saying that he has now made arrangements with the well-known firm, Messrs, James Tod and Son, engineers, Edinburgh, which will enable him to furnish safety cages, calculated to carry from 12 to 15 cwts. of coal or ironstone, at £10 each, and other sizes in proportion. As the carriage of a cage by rail to the central parts of Engiand does not exceed 10s., the cage may be delivered in almost any locality for a sum not exceeding 10 guineas, exclusive of the license fee, which at present is only 11. Coal and ironmasters, therefore, would do well, at this time, to provide themselves with one, which, on being tried in their pits and found to answer, would serve as a model for making others. By sending the order through the patentee, they will have the advantage of his personal superintendence.

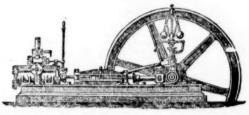
To those who prefer getting them made on their own premises, working drawings or

Inducts with the word, and a cage castly.

In view of any further attempt of the Legislature to make the use of safety cages imperative, it would seem advisable to secure licenses at the present low rate for as man

M ESSRS. E. PAGE AND VICTORIA WORKS, BEDFORD,

AND LAURENCE POUNTNEY PLACE, CANNON STREET, LONDON MANUFACTURERS OF



HIGH PRESSURE STEAM ENGINES, from 21/4 to 30 horse power, and upwards, adapted for MINING and GENERAL PURPOSES.

Prices and full particulars sent on application.

CLAYTON, SHUTTLEWORTH, AND CO.,
AGRICULTURAL AND GENERAL ENGINEERS,
LINCOLN, and 78, LOMBARD STREET, LONDON.

PORTABLE and FIXED STEAM

ENGINES, Which are adapted for every purpose to which steam-power can be applied. When intended for winding they are fitted with reversing link motion and requisite gearing. The portable engage are easy of removal from place to place, and may be set to work immediately on arrival.

COMBINED THRASHING MACHINES,

Which dress the corn ready for market

GRINDING and MORTAR MILLS, SAWING MACHINERY, PUMPS for IRRIGATION and

Full particulars and estimates sup-plied on application to CLATTON, SHUT-TLEWORTH, and Co., as above.

PLUMBAGO CRUCIBLES.—
nufactured by the PATENT PLUMBAGO CRUCIBLE COM



Price lists sent gratis

The crucibles manufactured by the PATENT FLUMBAGO CRUCIBLE COMPANY have been in successful use for many years by some of the largest ENGINEERS, BRASSFOUNDERS, and RE-FINERS in this country and abroad. The great SUPERIORITY of these melting pots consists in their capability of melting on the average 35 to 40 pourings of the most difficult metals, and a still greater number of the ordinary character, some of them having actually been worked for the EXTRAORDINARY and a still greater number of the ordinary character, some of them having actually been worked for the EXTRAORDINARY cannot be a still greater number of the ordinary character, some of them having actually been worked for the EXTRAORDINARY cannot be a still greater number of the ordinary character, some of them having actually been worked for the EXTRAORDINARY CENT. In fuel, time, and labour. Lasting as they do for such a length of time, the saving of waste is also very considerable. The company have recently introduced a CRUCIBLE SPECIALLY ADAPTED for MALLEABLE IRON MELTING, the average working of which has proved to be about seven days.

CRUCIBLES for STEEL MELTING are also made, which save nearly 1½ ton of fael to every ton of steel fused.

The Patent Plumbago Crucible Company likewise manufacture and import clay cratibles, muffles, portable furnaces, &c., stove backs, all descriptions of fire-standing goods, and every requisite for the assayer and dentist.

For lists, testimonials, &c., apply to the Patent Plumbago Crucible Company, Battersea, Works, London, S.W.

A USTRALLA AND NEW STEATH AND STEA

AUSTRALIA AND NEW ZEALAND
WHITE STAR EX-ROYAL MAIL CLIPPERS,
SAILING FROM
LIVERPOOL to MELBOURNE on the 1st and 20th of every month.

*** Passengers holding Victoria passage warrants will be forwarded to Melbourne by these voceols.

BASTIER'S PATENT CHAIN PUMP,
APPARATUS FOR RAISING WATER ECONOMICALLY, ESPECIALLY
APPLICABLE TO ALL KINDS OF MINES, DRAINAGE, WELLS, MARINE,
FIRE AS

APPLICABLE TO ALL KINDS OF MINES, DEAINAGE, WELLS, MARINE, FIRE, &c.

J. U. Bastier begs to call the attention of proprietors of mines, engineers, architects, armers, and the public in general, to his new pump, the cheapest and most efficient verification of the public notice. The principle of this new pump is simple and effective, and its action is so arranged that accidental breakage is impossible. It occupies less space than any other kind of pump in use, does not interfere with the working of the shafts, and unites lightness with a degree of durability almost imperiabable. By means of this bydraulic machine water can be raised economically from wells of any depth; it can by worked either by steam-engine or any other motive power, by quick or slow motion. The following statement presents some of the results obtained by this hydraulic machine, as daily demonstrated by use:—

1.—It utilizes from 90 to 92 per cent. of the motive power.

2.—Its price and expense of installation is 75 per cent. less than the usual pumps employed for mining purposes.

3.—It occupies a very small space.

4.—It raises water from any depth with the same facility and economy.

5.—It raises with the water, and without the slightest injury to the apparatus sand mud, wood, stone, and every object of a smaller diameter than its tube.

6.—It is easily removed, and requires no cleaning or attention.

A mining pump can be seen daily at work, at Wheal Concord Mine, South Sydenham, Devon, near Tavistock; and a shipping pump at Woodside Graving Dock Company (Limited), Birkenhead, near Liverpool.

J. U. Bastier, sele manufacturer, will CONTRACT to ERECT his PATENT PUMP

(Limited), Birkennead, near Liverpool.

J. U. Bastier, sole manufacturer, will CONTRACT to ERECT his PATENT PUMP
at HIS OWN EXPENSE, and will GUARANTEE IT FOR ONE YEAR, or will
GRANT LICENSES to manufacturers, mining proprietors and others, for the USM
of his INVENTION.

OFFICES, 47, WARREN STREET, FITZROY SQUARE.
London, March 21, 1859. Hours from Ten till Four. J. U. BASTIER, C.E.

CUBA MINERAL TURPENTINE (No. 1)—TO VARNISM MAKERS, INDIA RUBBER MANUFACTURERS, &c.,—The ASPRALTUM, COMPANY (LIMITED) MANUFACTURE a SPIRIT which is an EXCELLENT SOLVENT for VARIOUS MATERIALS EMPLOYED in VARNISH MAKING, INDIA RUBBER, &c. Uniform quality guaranteed.—Apply at the offices of the company, 34, Great Winchester-street, London, E.C.

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OIL AND COLOURMEN, BUILDERS, CONTRACTORS, &c.—The ASPHALTUM COMPANY (LIMITED) MANUFACTURE a SPIRIT for PAINTING PURPOSES, which is a COMPLETE SUBSTITUTE for TURPENTINE SPIRIT, and
ONE-THIRD CHEAPER. Mixes thoroughly with oils, turpentine, &c., and "flats
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PARR'S LIFE PILLS are particularly recommended to all persons who are suffering from headache or indigestion, whether arising from constitutional inaction, biliary derangement, or over indulgence at the table. They have never been known to fall in affording immediate relief. May be obtained of any medicine vendor, in boxes 1s. 1½d., 2s. 9d., and in family packets 11s. each. Directions with each box.

D. R. MARSTON, M.R.C.S., L.S.A., on Nervous Debility, Impediments to Marriage, and all secret diseases, showing a simple yet certain means of restoration to vigorous health. Price 6d., post free, direct from the author, 47, Berners-street, Oxford-street, London. Consultations, Eleven to Two, and Four to Eight daily.

DR. SMITH has just published a free edition of his valuable work, the PRIVATE MEDICAL FRIEND (116 pages), on the Self Cure of Nervous Debility, Loss of Memory, Dimness of Sight, Lassitude, &c., resulting from the errors of youth. Sent post free to any address, on receipt of a directed envelope, enclosing two postage stamps.—Address, Dr. Shith, 8, Burton-crescent, Tavistock-square, London, W.C.

THE NEW FRENCH REMEDY, THERAPION, for nervousness debility, and exhaustion. In four weeks restores manhood to the most shattere constitution, with marvellous cortainty. Price 11s., or four times the quantity for 33s Agents for Engiand, Tacana and Co., 7, Upper St. Martin's-lane, London, by whom I will be sent anywhere, carefully packed, on receipt of Post-office order.

THE	MININ	S HAR	E LIST.			SIVE MINES.		Shares. Mines. 6000 North Kit Hill (tin. 6000 North Laxey (lead)	inle of Mon	d. Last Fr. Balda is	
Shares. Mine	. P.	END MINES.	Dieidends Per Share. Last Paid.	10000 4	libey Consols (id.) Cardiga lit-y-Crib (lead) [L. £5] ingarrack (copper), Phillac	k. 1 16 114	Nov. 1860 Oct. 1861 June, 1859 Mar. 1862	2000 No. Levant (tin, cop. 10000 North Minera (lead 4000 North Phonix (cop. 6000 North Porthilly (sil) [L.] 1 (per) –	0 1 lia in	
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1024 West Penstrutt 400 W.Wh. Seton (cop.), Camborne[S.E.] 47	10 0 270 270 280 2 6 9714 94 96	. 346 0 0 8 0 0—April, 1863 . 482 10 0 3 0 0—April, 1863	1000 3000	Devon Union (copper) [L. £ Devon Wheal Buller (copper)	(1) 0 17 6 % (r) 4 0 0 34	. Feb. 1862 . Feb. 1862 . Mar. 1862	400 So. Wh. Seton(cop.) 794 Spearne Cons. (tin) 970 St. Aubyn and Gryl	Camborne 29 13 , St. Just. 6 13 is (cp.,tin) 7 15	0. 6	industry. Gold is usually
198 Wheat Friends	hip (copper), Devon 50	0 0 90	.2400 10 0 5 0 0-Feb. 186	3000	Eaglebrook (lead.), Cardiga Eaglebrook (lead.), Cardiga East Alfred Consols (coppe E. Beam (tin), St. Aus. [L.4 E. Budnick and Mount (co	22) 1 0 0 2 4	Oct. 1861 Mar. 1862 April, 1862 Jan. 1861	4000 St. Day United (tin 1024 St. Ives Wheal All 6000 St. Just (tin & cop. 640 Stamp Office (lead).), Redruth 2 : on (tin) 7 13) [L. 2%]. 0 14	9. —3½ 3½15 9. 6	inity of eruptive rocks. ' and auriferous, but the se see generally ascribed to
512 Wheal Jane (s 4800 Wheal Ludcott 896 Wh. Margaret 1024 Wh. Mary Ann	ilver-lead), Kea 8 t (lead), St. Ive (tin), Uny Lel. [S.E.]†, 9 (ld.), Menheniot[S.E.]†	10 0 25 2 10 8 736 736 736 17 6 4436 8 0 0 11361036 1136	18 10 0 1 0 0—Mar. 186: 1 12 0 0 4 0—Oct. 186: 71 5 0 1 5 0—Feb. 186: 55 7 6 0 10 0—Mar. 186:	6000 6400 6000 4000	East Carn Brea(cop.) Redru East Crinnis and South Pa East Damsel (cop.), Gweni East Dayon Gt. Copsels (co	th 3 11 0 14%16% 10 c 2 14 0 2 13%	6%Oct. 1861 May, 1862 Mar. 1862 April. 1862	920 Stray Park (cop., ti	n) (8.E.). 98 9	0. 3214 . 32 33 . 16	chs) have, particularly whamounts. Of these those
80 Wheal Owles (396 Wheal Seton (1040 Wh.Trelawny(6000 Wickley (copy	tin), St. Just, Cornwall 70 tin, copper), Camborne. 58 (silld.), Liskeard[S.E.] 4 per) [L.], Wicklow 4	0 0 0 300 126 128 126 128	8 10 0.0 10 0—April, 186 13 10 0.1 0 0—Mar. 186 1 12 0.0 0 4 0—Oct. 186 71 5 0.1 5 0—Feb. 186 55 7 6.0 10 0—Mar. 186 293 30.7 10 0—Feb. 186 136 5 0.1 10 0—April, 186 44 10 0.0 15 0—Feb. 186 43 17 6.2 0 0—Oct. 186	6000 4000 6145 12000	E. Grenville (cop.), Cambon E. Gunnis Lake & S. Bedf. (c East Jane (silid.), Cardin East Mona (cop., &c.) [L.:	p.) 6 13 0. 34.	May, 1862 April, 1862 May, 1861	2000 Treffry Consols	St. Enoder 3	0. 456	tope, of small quantities of glomerates of the Carboni old almost always, if not
[• Div	ridends paid every two mor	vidends paid of	very three months.]	4096	E. Polberro, St. Agnes [L. E. Providence (tin), Uny I E. Releath (tin, cop.), Wend E. Rosewarne (cp.,tin), Gw	el. 2 8 4 214	May, 1861 Mar. 1862 Aug. 1860 28sMay, 1862	1024 Trencrom (tin), Ur 5000 Tresellyn and Scad 8000 Tretoil (copper, tin	dick Cons. 1	6. 1½	ness of considerable weight
700 Aberdovey (sil 5120 Alfred Consols 2048 Carnyorth (tim	iver-lead), Merioneth	1 10 0 30 5 7 7 34 3s. 5s. 8 15 0 134	0 10 0 0 10 0-Mar. 185 20 3 0 0 2 6-April, 185 0 19 6 0 2 0-Sept. 186	5610 256 1000 1024	East Seton (cop.), Camborr East Tolgus (copper), Redr	ith 66 0 0 30	Mar. 1862	4096 Treweatha (silid. 2048 Treworlis (tin), W	endron . 3	6 4 2	d is also often associated pyrites, galena, blende, s tel. It appears somewhat in metallic sulphides exi
256 Condurrow(co	p.,tin), Camborne 20	7 8 10. 16 0 0 0. 6714 5 16 3. 314 0 2 6. 12	0 10 0.0 10 0—Mar. 185 20 3 0.0 2 6—April, 185 0 19 6.0 2 0—Sept. 186 0 13 0.0 1 6—Sept. 186 85 0 0.2 0 0—June, 185 0 10 0.0 9 6—Feb. 386 16 7 6.1 10 0—Mar. 186 0 13 6.0 2 0—Sept. 185 0 7 6.0 2 6—Jan. 186 0 5 0.0 5 0—July, 186	9 1190 6000 9 4096 7 4000	E. Tretusis (cop.), Gwenn E. Treskerby (cop.), Redru E. Wheal Agar (cop.), St.C. E. Wh. Eilen (silid.), St. East Wheal Fortune E. Wh. Russell, Tavis. [8.	eer 8 12 0 234 Ivo 0 3 6 34 E.) 7 10 0 316276 3	April, 1862 April, 1862	3000 Tyne Head (id., cop 800 Tyne Wydd(silid.) 1024 Tyringtam Consol 5120 United Mines (cp., 1000 Waenlas(id.), Dent	Cardigan. 0 (tin) 2 &c.), Tav. 4 1 igh.[L.£10]8	6 6 . 15	f, in some cases at least, i har. I may, however, ob ments on this subject, I as
1400 Eyam Mining	Co. (lead), Derbyshire	7 2 6 22	20 3 4 0 10 0-May, 186	1 114	rowey and Far Uni., St. Bil	zey U 10 U A/8	******* 7000	3000 West Alfred (copper 20000 West Beam [L. £1	er) [L. £3] I] 0 .) [L. £20] 9	9 0 136	for the extraction and
119 Great Work (t 6000 Hingston Dow 5000 Kelly Bray (to	tin), Germoe	0 0 0 110 5 1 0 214 214 214 4 13 0 36 34	41 9 3 0 2 6—June, 186 221 10 0 7 10 0—Feb. 185 2 16 0 0 2 6—Nov. 185 0 6 0 0 2 0—Feb. 186	7 4000 6 1024 0 6000	Fursdon(ep.), Okeham. [L.: Furze Hill Wood Cons., Bus Garden (tin), Morvah Garreg (lead), Flint Gawton (copper), Tavisto Gelliffowlier (id.), Holyw Gen. Min. Co. for Irel. (co Glasgow Caradon Cons. [I Goginan (silvid.) [1900. & Gonamena (copper), 8t. Cl	4 15 0 ½ ck 1 14 0 ¾ cll. 0 2 65s.6d p.) 4 0 0 5¼ 4½	Mar. 1862 Feb. 1862 June, 1861	16 West Denbigh (ld., 30000 W. Devon Con. (co	p.),[L.£1] 0 1	0 0100	process of amalgamation
160 Levant (copper 5000 Mendip Hills 470 Newtownards	r, tin), St. Just (lead) [L.], Somerset Mining Co., Co. Down 5	2 10 0. 95 8 15 0. 14 0 0 0 0. 35	41 93.0 26—June, 186 921 10 0.7 10 0—Feb. 186 216 0.0 26—Nov. 186 0 60.0 20—Feb. 186 1420 0 0.50 0 0—June, 185 1091 0 0.5 0 0—May, 186 2 1 0.0 26—May, 186 56 0 0.1 0 0—Sept. 186 33 10 0.1 0 0—Sept. 186	30000 4892 6144 2000	Glasgow Caradon Cons. [I Goginan (silvid.) [1900 £ Gonamena (copper), St. Cli Goonzion (copper), St. Net Gourock (cop.), Scotld. [L.	.]. 1 0 0 4 12¼,2992£1] 2 ecr. 3 0 0 1¼ %	Fully paid. July, 1860 1April, 1862 Feb. 1861	25000 West Par Con (cp.).St. Austell 0 1	3 0 16	es, &c., contained in the etallurgic treatment by f r lead product.
12000 Sortridge Con. 128 South Crinnis 6000 Tolvadden (co	(cop.), Whitchurch [S.E.] (copper), St. Austell 1	0 16 0 12s 10s. 11s. 9 0 0 285 0 6 0 334 356 376	0 10 0 1 0 0 5 6 July, 188 60 0 0 20 0 0 June, 188 0 18 6 0 3 0 Mar. 186	7 486 5 5000 0 4096	Great Brigan (copper)	3 17 0 3	April, 1862	1056 WestStray Park(co	on (copper). 1 1 op.),Camb. 8 o.), Crowan 1 1	6 6 1 % 1% 6 0 156	of British Columbia, N
20000 Vale of Towy (256 West Damsel 1024 West Provider	(lead), Carmarthen [S.E.] (copper), Gwennap 3 ncc (tin), St. Erth 1	0 13 6. 6s 3s. 4s. 8 10 0. 60 6 15 0. 334.	0 5 9 0 1 0—July, 186 45 0 0 1 0 0—May, 186 23 1 9 0 10 0—April, 186	8 10104 0 6000 7 47000	Great North Downs (copp Great Onslow Cons., Came	lfd. 3 10 9 34	Dec. 1860 sFeb. 1862	512 West Tolgus (cop. 5120 West Tolvadden 1827 West Trevelyan (t 4000 West Wendron (tim	in, copper) 10 b), Wendron 1	6 6 1	in the neighbourhood of urish Columbia.—As e or of Vancouver's Island,
4295 Wheal Kitty 1024 Wheal Marger 100 Wheal Mary	(tin), St. Agnes ry (tin, copper)	4 16 6 % 1% 2 6 13 0 8 88 2 6 440	56 0 0 . 1 0 0—Sept. 18: 33 10 0 . 1 0 0 - Sept. 18: 30 10 0 . 0 2 6 - July, 18: 60 0 0 . 20 0 0 - July, 18: 7 0 0 . 0 10 0 - Sept. 18: 7 0 0 . 0 10 0 - Sept. 18: 9 0 0 5 9 0 1 0 - July, 18: 45 0 0 . 1 0 0 - May, 18: 11 2 0 . 0 7 8 - Nov. 18: 11 2 0 . 0 7 8 - Nov. 18: 120 5 0 7 0 0 - July, 18: 280 5 0 7 0 0 - July, 18: 10 2 6 0 7 6 - July, 18: 10 2 6 0 7 6 - July, 18:	0 6000 0 8730 6000	Gt. Tywarnhaile (cp.), L.	£5] 3 10 0 3 31	June, 1861 Feb. 1862	10000 West Wheal Jane 1024 West Wheal Lovel	(tin, &c.) 2 1	3 8 1	ry of gold in the British d that the earnings of the quence, however, of the ber of diggers was very li
	FOR	EIGN MINES.		8634	Gt. Wh. Busy (cop., tin), F. Great Wh. Martha (cop.) Grosvenor(id.)[2500£1pd. Gurlyn (cop., tin), St. Er Gwydyr Park Con., Llann Hafod (id.), Cardigan [L		Fully paid. Feb. 1862 Dec. 1861 Jan. 1862	5000 Wheal Annie (cop.	de), Perranz. 0 1 .), Gwinear 0 1 .), Caistock. 3 1	3 6 1¼ 5 0 4 0 0 0 12	Governor Douglas repor
12000 Cobre Coppe 10000 Copiapo Mini 15000 East Indian	r Co. (cop.), South Australia. r Co. (cop.), Cuba [S.E.] 4 ing Company, Chili [S.E.] 1 Coal, Calcutta [L.]	5 0 0110xd 110 xd. 10 0 0 34 16 0 0 7 10 0 0 10	98 12 0 0 0 . 5 0 0 Dec. 18 98 12 0 . 1 0 0 - Jan. 18 6 8 0 . 0 5 0 - Jan. 18 74 per cent Yearly 1 7 6 . 0 2 6 - Feb. 18 18 5 0 . 1 0 0 - June, 18 0 9 0 . 0 1 0 - Mar. 18 8 6 2 . 0 3 4 - July, 18 0 9 6 . 0 1 6 - July, 18 0 9 6 . 0 1 6 - July, 18 0 5 6 . 0 1 6 - July, 18 0 5 6 . 0 1 6 - July, 18	6400 7219 31 7219	Harwood (ld.),Durham[L Hawkmoor(tin,cop.)Calst Herward Uni. (ld.), Film	.£1] 0 3 6 % ock 2 19 6 %	July, 1861 Oct. 1861 April, 1862 Sept. 1860	1 1000 Wheal Busset and 6000 Wheal Caradon (c 18000 Wh. Concord(sil) 6000 Wheal Crebor (cop	opper) 0 1 d.,cp.)[L.£1]0 .),Tavistock 0 1	5 0 — 5 0 — 9 0 ¼	ot, however, until May, 1858, position of the aboriginess he
25000 English and 25000 Gen. Mining 68000 Kapunda Mir 15000 Linares (id.)	Australian [S.E.] Assoc., Nova Scotia[S.E.] ning Co., Australia [S.E.] , Pozo Ancho, Spain [S.E.]	20 0 0 24 23 24 1 0 0 134 7 714	. 18 50 1 00—June, 18 . 0 90 0 10—Mar. 18 . 8 6 2 0 3 4—July, 18	61 6000 62 6000 61 3000	Holmbush 5000£52s. pd. Imperial Silver-Lead, Doj Keswick (lead), Portinses Lady Bertha (cop.) [S.E. Lady Eliza (id.), Carm. [L Leeds & St. Aubyn (tin, c Lelant Cons. (tin), Uny Le	zelly 65 0 0 80 de . 5 6 1 1 16 0 13s12s.		5120 Wheat Cupit (cop. 512 Wh.Damsel(cp.,tii 4096 Wh. Edward (cop. 4000 Wh.Emma(cp)Bu	n),Gwennap 26 1 .), Caistock 7 10 ckfastieigh 2 1 ckfastieigh 2 1	5 0 4 1% 18 .	that the mainland of Ne to the Pacific was somewhat rave every promise of booms from correspondent, writing of the present year, says:—microus region, I may state the many places in the rank of the present year.
103815 Mariquita at 100000 Port Phillip 11000 St. John del	of Fortugal) [S.E.] (May Granada [S.E.] (gold), Clunes [S.E.] Rey [L.], Brazil [S.E.] a Mining Company [L.]	1 0 0 34 1 0 0 114 1 114 15 0 0 60 59% 60	46 6 0 5 0 0-1/cc. 16	59 1019 52 962 61 1000	Leeds & St. Aubyn (tin, c Lelant Cons. (tin), Uny Le Llanfair (silver-lead) [L.] Llywernes (ld.), Card. [L.]	op.) 16 4 4 4 lant 32 10 0 234	Feb. 1862 Mar. 1861 Fully paid Jan. 1862	5844 Wh.Grenville (con 5120 Wheal Harriett, C 6000 Wh. Harris (ld., c	oper)[S.E.] 7 1: amborne 4 op.), Lifton 0 1: . St. Just. 9 1:	2 0 . 3 3	53d Barallal of Source in the H
FOREIG	N MINES WIT	TH DIVIDENDS	IN ABEYANCE.	2000 6000 4480	Lianfair (sliver-lead) [L.] Llywernog (ld.), Card. [L] Long Rake (lead), Fiint Lower Park Denbighshire Maudlin [2848 £6, 3416 4] Merilyn (lead), Flint	[L.] 4 2 0 18a 51] . —	16April, 1862 April, 1862	2048 Wheal Hope (sil 6000 Wh. Moyle (cop.)	Gwennap. 2 c.),St.Cleer 1 1 Austell. 3 1	7 0 13 5 1 134 3 9 19	or 290 miles to Fort George, a rises in an opposite direction.
10000 Alten and Qu 10000 Gt.Barrier L 10000 Pontgiband 43174 Unit.Mexico	aenangenUni.(cop.)[L.£5] and,Min.,&c.,N.Ze.[L.£5] (sillead), France [S.E.] an(sil.),Mexico[S.E.]Av.	4 10 0 3 4 10 0 3 20 0 0 4 28 5 0 7 7 7	4 5 0 0 15 0—Nov. 18 15 per cent. —May, 18 1 0 0 1 0 0—June, 18 1 16 6 0 4 0—Feb. 18	53 22000 59 3478 55 16000 53 5000	Maudiin (2848 £6, 3416 £6) Merilyn (lead), Flint Merryfield (lead) [L.] Michell (lead), Flint Mold (lead), Flints. [L. £6] Mold (lead), F. Moulium (cop.), B. Moulium (cop.), B. Moulium (cop.), B. Moulium (cop.)	0 12 0. 9s 0 2 6. 9s 0 17 0. %	May, 1860 Nov. 1861 Jan. 1860 July, 1861	0 2315 Wh. Pollard (cop.) 1 1000 Wh. Prosper (cp., to 1879 Wheal Prospidatel	in), Breage 9 k (tin) 1 1 Uny Leiant 88 1	0 0 8	the north. Here the union of
	NON-DIVIDI	END FOREIGN		1024 5000 2400 250	Moliand (tead), Finite, L. A. Moulte Nanglies (tin, copper), K. Nanteos and Penrhiw (L. Nanteos and Penrhiw (L. Nanty Mines (id.), Monty Nether Heath (lead), Duff N. Crow Hill (id.), St. Step New E. W. Riesell, Tavi	£4] 3 12 0 — neth 3 7 6 21/4 com. 20 0 0 —	Mar. 186; Jan. 186; April, 186; Fully paid April, 186	6000 Wh. Norris (tin.; of 1) 1024 Wheal Polmear, 5 1024 Wheal Polmear, 5 1010 Wh. Prosper (cp., in 1) 1879 Wheal Prospidnie 240 Wh. Reeth (tin.), in 1024 Wh. Sicily (sil., of 2) 1024 Wh. Sicily (sil., of 2) 1024 Wh. Sicily (sil., of 3) 1024 Wh. Sicily (sil., of 3) 1024 Wheal St. Andrew 1024 Wheal S	, Piympton 3 lineal Uni. 7	6 1 2	son, to the other arm, the two in territory upwards of 1000 mm, but not including the tree itself is now known to by throughout its whole course eer, of which no less than the course eer, of which the course eer
20000 Australian (75000 Bon Accord, 25000 Capula (silv	Mines. (copper), South Australia [, South Australia (copper) er), Mexico [L. £2] [S.E.]	S.E.] 7 7 7 7 [L. £1] [S.E.] 0 17 9 10	d. Last Pr. Bus. done. Last Ca 6 . 1	77. 6400 58 6400 60 4540 62 1000	Nether Heath (lead), Duff N. Crow Hill (ld.), St. Step New E. Wh. Russell, Tavi New Godolphin	on 0 15 6 14 ohen 12 3 6 14 stock 0 4 0 14	April, 186: April, 186: Aug. 186: Jan, 186:	512 Wh. Trannack (U 512 Wh. Transis (cop.	n), Sithney) Gwennap. 26 .), Redruth 3 n), Gwinear 11 1	5 0 3 3% 9 0 3 19a 14a 5 0 15a 17a 7% 7%	number of its tributaries w. But these facts do not by the vast extent of the area of
17000 Central Am 17000 Central Ital 60000 Clarendon C 10000 Coplapo Sm	erican (silver) [L.] ian (copper) [7000 £2 paid lonsols (copper), Jamaica [elting [L.], Chili	S.E.] 0 6 8.E.] 0 17	10	59 6000 59 6000 61 2000 d. 102	New E. Wh. Ressell, Tavi New Godolphin New S. Caradon (cop.), 8t New Treleigh Cons., Red New Wheal Clifford (cop New Wheal Hender, Cro	Cleer 0 7 6 34 36. 36. 36. 36. 36. 36. 36. 36. 36. 3	Feb. 186 Mar. 186 June, 186	4096 Wh. Uny (tin, cop 1024 Wh. Vyvyan (cop. 1 6000 Wheal Welcome (6400 Whitford (lead),), Redruth 3), Constantine 3 tin, copper). 1 Holywell 10	0 0 416	and on the shores of these at the and on the shores of these at
25000 Dun Mounu 25000 East del Rej 30000 East Kongsi 15000 Eibe Collier	y, Brazil [L. £3]berg Native Silver Mining y Company [L. £1]	[L.] [S.E.] 1 0 Co. of Norway [L. £5] 1 7	0 . 14 . 114 . Fully pa 0 . 14 . 14 14 . Sept. 18 6 . 4	61 230 62 250 61 600	New Wh. Seton (cop.), Ca New Wh. Vor & E. Wh. M N. Wh. Vaddon(tin), Mara Nidderdale(id.), Yorks.[L	£11 0 15 0 36	April, 186 July, 186 Nov. 186 Jan. 186	2 5000 Willow Bank (lea 1 1024 Worvas Downs (t 1 3097 Yarner (copper), l	h) [L. £2] . 4 1 h), Lelant . 4 1 Devon 2 1	5 0 5 11 m	varying from a few acres to
8000 English and 25000 Fortuna (let 80000 Great North	d Canadian Mining Comparad), Spain [L.] [S.E.]	oy [L.]	d. Last Pr. Bus. done. Last Co 6 11/4 Sept. 18 6 24 1/4 Dec. 18 10 12 Feb. 18 10 12 Feb. 18 10 12 Feb. 18 10 13 Fully pa 10 11/4 July 18 10 13/4 July 18 10 13	id. 450 id. 102 62 600	N. Budnick (tin,ld.), Peri No. Budnick and West M North Buller (cop.), Redr Nort. Clifford (cop.), Gwe North Cornwall (Endelli	ount 0 5 0 38	.Feb. 186	2	ATE QU	ARRIES.	avation on both sides, sometic er side of the river, and in so
4000 Hope Silver 50000 Imperial TI 10000 Karbitz Col	r-Lend and Copper Mining hessalian (lead, &c.), Thess lliery Company [L. £1]	Co. [L.], Jamaica 25 (saly [L. £2] 0 10	. Nov. 16 0 0 . —	00 950	O N. Dolcoath (cop.), Camb O North Fortescue (copper)	orne 2 7 6. 34. 34	% .Feb. 186 .Feb. 186 .Oct. 186	2 8800 British Slate [700] 2 10000 Cricceth, Carnary 1 20000 Festinic Slate Q 2 6000 Glan-y-Pwil, Mer 2 10000 Great Meelwyn S	0 £1, 1800 £10] [1 on [L. £3] 1 1 earry [L. £5] 4 1 ion, [L. £5] 2	0 0 . 1	iders, and they are thick mas the statement of the same w
80000 Lagunazo (60000 New Grand 10000 New Grand	sulphur, copper), Portugal da (gold), South America Duchy of Baden (silver-le	[L. £1] 0 17 [S.E.] 1 0 ad), near Freiburg 1 (7 6 . %	id. 600	North Great Work, Brea N, Hafod (silid.), Car.[L	£2] 1 00,	equity, 100.	acces Tomas Caldywa []	£216] ···	0.0 **	and, and a party of three mei
15000 Pachuca Sili 60000 Santa Barbi 120000 Scottish Au 15000 Scottish Au	iver Mining Company, Measure (gold), Brazii [L. £1] istralian Mining Company the Mining Company	[L.£1] 0 10 [S.E.] 1 0 11 [S.E.] 1 0 12 [S.E.] 1 0 12 [S.E.] 0 12 [S.E.] 0 12 [S.E.] 0 12 [S.E.] 0 13 [S.E.] 0 14 [S.E.] 1 0 14	5 0 . %	61 .	• Those mines with [8, I	.] appended have been adn	nitted on the Stoc	ek Exchange. Those mines	Attn fred sky		all the mail 850 per diem
				id. •.	* Cur object being to make tion which may, from tin it formation. Reports from	the Share List correct, we ne to time, come under the om mines—in fact, mining	e earnestly call up ir notice. To shi intelligence of eve	pen all who have the power, archolders, as well as those ery description, forwarded to	to aid us, by for officially connect o our office, will a	ed with the man	ed their operations during the continues of timber for their studes, and their labours the first three
35425 Wheal Jam 80000 Worthing 45000 Yudanamu	copper), South Australia [tana (17]] er), South Austr	L.] [8.E.] 1 ralia [L.] 3	0 0 . 18s Fully pe 0 0 . 3 Fully pe 0 0 . 3	id. Lond	ion : Printed by Richard	MIDDLETON, and published munications ar	by HENRY ENGLI re requested to be	ery description, forwarded to ISH (the proprietors), at their addressed,—May 17, 1862.	r office, No. 24, F	THE PERSON	made 10 ozz., and on the six until it reached 387 ozz. per a n. The five partner p employ The labourers were paid 25
											were paid 88